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Contributors

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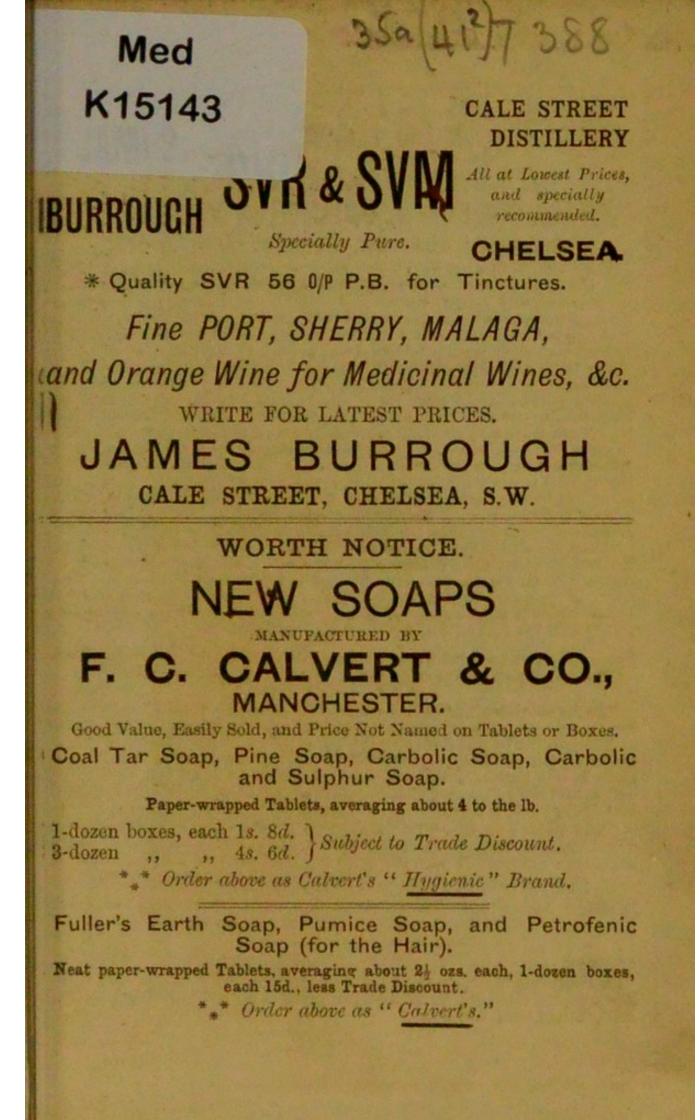
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FOR PHARMACISTS, CHEMISTS, AND STUDENTS

COMPILED BY

C. J. S. THOMPSON

AUTHOR OF "PRACTICAL DISPENSING FOR PHARMACEUTICAL AND MEDICAL STUDENTS," "FIRST AID IN SIMPLE AILMENTS AND ACCIDENTS," "A MANUAL OF PERSONAL HYGIENE," ETC.

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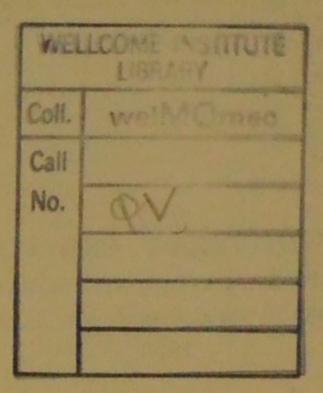
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PREFACE

WITH the constant and increasing growth of Pharmaceutical, Chemical, and Scientific literature, the want has doubtless been felt by pharmacists of book of convenient size, embodying the essential points of the many subjects of use to them in the Haily exercise of their craft. This work is designed to supply this deficiency, and simply act as a handybook of reference.

It is also intended to serve as an introduction and ruide to the standard text-books on the subjects included.

C. J. S. T.

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A SYNOPSIS OF THE FORMULÆ

OF THE

BRITISH PHARMACOPEIA OF 1885

WITH ADDITIONS OF 1890

AACETUM CANTHARIDIS.

Cantharides				1 part.
Glacial Acetic Acid				1 part.
Acetic Acid				10 parts.
Prepared by maceration S.G. about 1.060.	and	percol	lation.	

ACETUM IPECACUANHÆ.

Ipecacuanha, in No. 20	powe	ler			1 part.
Diluted Acetic Acid				q.s.	20 parts.
Prepared by maceration	and	perce	olation		A Constant

ACETUM SCILLÆ.

Squill, bruised . Diluted Acetic Acid	:	:	1.	1 part. 8 parts.
Prepared by maceration. S.G. about 1.038.				- Lanta

ICIDUM ACETICUM DILUTUM.

Acetic Acid .	38.541		2	1 part.
Distilled Water				7 parts.
Mix. S.G. 1.006.				

ACIDUM HYDROCHLORICUM DILUTUM.

ACIDUM LACTICUM DILUTUM.

Lactic Acid .		3 ounces.
Distilled Water		q.s. to produce 1 pint.
Mix. S.G. 1.040.		

ACIDUM NITRICUM DILUTUM.

Nitrie Acid .					6 (ounc	es.
Distilled Water		q.s.	to	make	31	fld.	ounces.
Mix. S.G. 1.101.							

ACIDUM NITRO-HYDROCHLORICUM DILUTUM.

Nitric Acid			3 ounces.
Hydrochloric Acid.			4 ounces.
Distilled Water .			25 ounces,
Mix. S.G. 1.07.			

ACIDUM PHOSPHORICUM DILUTUM.

Concentrated Phos	phe			3 ounces.
Distilled Water		 q.s. to	make	20 ounces.
Mix. S.G. 1.08.				

ACIDUM SULPHURICUM AROMATICUM.

Strong Tincture of	f Gin	nger		1 part.
Spirit of Cinnamo	n			1 part.
Rectified Spirit				18 parts.
Sulphuric Acid				11 parts.
S.G. 0.911.				

ACIDUM SULPHURICUM DILUTUM.

Sulphuric Acid					. 70	unces.	
Distilled Water	q.s.	to	make	831	ounces	when	cold.
S.G. 1.094.							

ADEPS BENZOATUS.

Prepared Lard 50 parts. Benzoin, in coarse powder . . . 1 part. Add the benzoin to the melted lard and heat, then remove the residual benzoin by straining.

ADEPS LANÆ HYDROSUS.

AQUA ANETHI.

Dill Fruit,	bruised		• •	1 pound.
Water .				2 gallons.
Distil one	gallon.			

MQUA ANISI.

Anise Fruit .			1 pound.
Water			2 gallons.
Distil one gallon.			

AQUA AURANTII FLORIS.

Distilled from the flowers of the Bitter Orange tree.

QUA CAMPHORÆ.

Camphor, crushed					1 ounce.
Distilled Water					I gallon.
Macerate for at lea	st t	wo day	VS.		

QUA CARUI.

Caraway Fruit			1 pound.
Water			2 gallons.
Distil one gallon.			

QUA CHLOROFORMI.

Chloroform			1 drachm.
Distilled Water .		-	25 ounces.
Shake till dissolved.			

QUA CINNAMOMI.

Cinnamon	Bark				20 ounces.
Water .	1		3.2	*	2 gallons.
Distil one	gallon.				

AQUA DESTILLATA.

Water		10 gallons.
Distil, reject the first half-gallon and serve the next eight.		
AQUA FENICULI.		
Fennel Fruit		1 pound.
Water		2 gallons.
Distil one gallon.		
AQUA LAUROCERASI.		
Fresh leaves of Cherry Laurel		1 pound.
Water		21 pints.
Distil one pint. Each 810 grains o	f the	
product should contain 0.1 per cer	nt. of	
real hydrocyanic acid.		
AQUA MENTHÆ PIPERITÆ.		
		11 drachms.
		11 gallons.
Distil one gallon.		
AQUA MENTHÆ VIRIDIS.		
Oil of Spearmint		11 drachms.
Water		11 gallons.
Distil one gallon.		
AQUA PIMENTÆ.		
		14 ounces.
Water	•	2 gallons.
Distil one gallon.		
AQUA ROSÆ.		
Fresh petals of the Hundred-leaved Ro	ose .	10 pounds.
Water		5 gallons.
Distil one gallon.		
AQUA SAMBUCI.		
Fresh Elder Flowers, separated from t		10 pounds.
Water		5 gallons.
Distil one gallon.	N. T. S	0
a tour one burrow		

CATAPLASMA CARBONIS.				
Wood Charcoal, in powd	er .			1 ounce.
Crumb of Bread .				2 ounces.
Linseed Meal				11 ounces.
Boiling Water .				10 fld. ounces.
°				
CATAPLASMA CONII.				
Juice of Hemlock .				
Linseed Meal .				
Boiling Water .				10 fld. ounces.
CATAPLASMA FERMENTI				
Beer Yeast				6 fld. ounces.
Wheaten Flour .			1	14 ounces.
Wheaten Flour . Water, heated to 100° F.				6 fld. ounces.
CATAPLASMA LINI.				
Linseed Meal Boiling Water .				4 ounces.
Boiling Water .		1.	•	10 fld. ounces.
ATAPLASMA SINAPIS.				
Mustard, in powder				21 ounces.
Linseed Meal				2 ¹ / ₂ ounces.
Boiling water and luke				
each in sufficiency.				
ATAPLASMA SODÆ CHLO	DTNA	77 72		
MINI DADMA DODA UNIC				
Solution of Chlorinated S				9 fld ownees
Solution of Chlorinated S Linseed Meal	oua .	S. C.		2 fld. ounces.
Solution of Chlorinated S Linseed Meal Boiling Water	ioua .		•	2 fld. ounces. 4 ounces. 8 fld. ounces
Solution of Chlorinated S Linseed Meal Boiling Water	ioua .	:	•	2 fld. ounces. 4 ounces. 8 fld. ounces.
Linseed Meal Boiling Water			•	2 fld. ounces.4 ounces.8 fld. ounces.
Linseed Meal Boiling Water	•			4 ounces. 8 fld. ounces.
Linseed Meal . Boiling Water .		· · ·		4 ounces. 8 fld. ounces. 4 ounces.
Linseed Meal Boiling Water CHARTA EPISPASTICA. White Wax Spermaceti Olive Oil			· · · · · · · · · · · · · · · · · · ·	4 ounces. 8 fld. ounces. 4 ounces. 1½ ounces. 2 fld. ounces
Linseed Meal . Boiling Water . 			· · · · · · · · · · · ·	4 ounces. 8 fld. ounces. 4 ounces. 1½ ounces. 2 fld. ounces. 3 ounce.
Linseed Meal . Boiling Water .		· · · · · · · · · · · · · · · · · · ·	•	4 ounces. 8 fld. ounces. 4 ounces. 1½ ounces. 2 fld. ounces. 4 ounce. 4 ounce.
Linseed Meal . Boiling Water . CHARTA EPISPASTICA. White Wax . Spermaceti . Olive Oil				4 ounces. 8 fld. ounces. 4 ounces. 1 ¹ / ₂ ounces. 2 fld. ounces. ² / ₄ ounce. ¹ / ₄ ounce. ¹ / ₄ ounce.

CHARTA SINAPIS.

Mustard, in powder . . . 1 ounce. Solution of Gutta Percha. 2 fld. ounces or a sufficiency. Coat strips of cartridge-paper with the mixture.

COLLODIUM.

Pyroxylin . Ether Rectified Spirit	: :	•	:	:	•	1 ounce, 36 fld. ounces, 12 fld. ounces.
COLLODIUM FLEXI						
Collodion						12 fld onnees
Canada Balsam						12 na. ounces.
Collodion . Canada Balsam Castor Oil .						‡ ounce.
COLLODIUM VESICA						
						00.01
Blistering Liquid	•	•		•	•	20 nd. ounces.
Pyroxylin .		•			•	1 ounce.
CONFECTIO OPII.						
Compound Powde	r of (Doiu	m.		-	1 part.
Syrup						
CONFECTIO PIPERI						
Black Pepper, in J Caraway Fruit Clarified Honey	powd	er				2 parts.
Caraway Fruit						3 parts.
Clarified Honey	•	•	•		•	15 parts.
CONFECTIO ROSÆ	CANI	NÆ.				
Hips, deprived of				mits		1 part.
Refined Sugar						
-						
CONFECTIO ROSÆ (
Fresh Red-Rose P	etals					1 part.
Refined Sugar						3 parts.
CONFECTIO SCAMMO	NIT					
	THE STORE		dan			18 nonto
Resin of Scammon				1	•	48 parts. 24 parts.
Ginger, in powder Oil of Caraway						2 fluid parts.
On or Oalaway				1		- unite Luxue

Oil of Cloves .			1 fluid part.
Syrup Clarified Honey		 	48 fluid parts.
Clarified Honey			24 fluid parts.

.

CONFECTIO SENNÆ.

Senna .						7 ounces.	
Coriander F	ruit					3 ounces.	
Figs .			Ser .			12 ounces.	
Tamarind							
Cassia Pulp						9 ounces.	
Prunes .						6 ounces.	
Extract of L	iquo	rice				1 ounce.	
Refined Suga			-			30 ounces.	
Distilled Wa	ater		. q	.s. to	make	75 ounces.	

CONFECTIO SULPHURIS.

Sublimed Sulphur .				4 parts.
Acid Tartrate of Potass	sium,	in po	wder	1 part.
Syrup of Orange Peel				4 fluid parts.
Tragacanth Powder.				24 part.

ONFECTIO TEREBINTHINÆ.

Oil of Turpentine			1 fluid part.
Liquorice Root, .in	powder		1 part.
Clarified Honey			2 parts.

ECOCTUM ALOES COMPOSITUM.

Extract of Socotrine Aloes 1 ounce.
Myrrh , , ,)
Myrrh
Carbonate of Potassium)
Extract of Liquorice 2 ounces.
Extract of Liquorice
Distilled Water q.s. to make 50 fld. ounces.
Reduce the aloes and myrrh to powder,
and put them with the potassium and
liquorice into a covered vessel, add a pint
of distilled water ; boil for five minutes,
and add the saffron. When cool add
the tincture of cardamoms, macerate for
two hours, and strain.

			3			
DECOCTUM CET Iceland Moss Distilled Wat Boil for ten r	 ter	:		:	•	1 ounce. 1 pint.
DECOCTUM CIN						
Red-Cinchons Distilled Wat Boil for ten n	a Bark, ter .	in No.				
DECOCTUM GRA	NATI	RADI	CIS.			
Pomegranate Distilled Wat Boil down to	ter .					
DECOCTUM HÆ	MATOX	YLI.				
Logwood, in o Cinnamon Ba Distilled Wat Boil for ten m towards the	rk, brui ær . inutes,	ised	:	:	•	1 ounce. 55 grains. 1 pint.
DECOCTUM HOR	DEI.					
Pearl Barley Distilled Wat Boil for twent	er .					2 ounces. $1\frac{1}{2}$ pints.
DECOCTUM PAP.						
Poppy Capsul Distilled Wat Boil for ten m	er .					
DECOCTUM PAR	EIRÆ.					
Pareira Root, Distilled Wate Boil for fifteer	er .	•	•			
DECOCTUM QUE	RCUS.					
Oak Bark, bru Distilled Wat	uised .					

ADD DO DO DO	
Jamaica Sarsaparilla, cut transversely . Boiling Distilled Water Digest for one hour, then boil for ten minutes, and make up to one pint.	
DECOCTUM SARSÆ COMPOSITUM.	
Jamaica Sarsaparilla, cut transversely .	$2\frac{1}{2}$ ounces.
Sassafras Root, in chips Guaiacum Wood turnings Dried Liquorice Root, bruised of each .	‡ ounce.
Mezereon Bark	1/8 ounce.
Boiling Distilled Water	11 pints.
Digest for one hour, boil forten minutes, and make the strained product measure a pint.	
DECOCTUM SCOPARII.	
Broom Tops, dried	1 ounce.
Distilled Water	1 pint.
Boil for ten minutes, and strain.	
DECOCTUM TARAXACI.	
Dried Dandelion Root, sliced and bruised	1 ounce.
Distilled Water	1 pint.
Boil for ten minutes, and strain.	
EMPLASTRUM AMMONIACI CUM HYDRA	RGYRO.
Anna antigenter	12 ounces.
Mercury	3 ounces.
Olive Oil	56 grains.
Sublimed Sulphur	8 grains.
Heat the oil, adding the sulphur to it,	
gradually stirring till they unite. Then add the mercury, and finally the am- moniacum.	
EMPLASTRUM BELLADONNÆ.	
Alcoholic Extract of Belladonna	1 part.
Resin Plaster of each	
Soap Plaster) of cach	2 parts.

Melt the plaster, then add the extract, and mix well together.

EMPLASTRUM CALEFACIENS.

Cantharides, in c Expressed Oil of Yellow Wax .	ofea	ch.	1 part.		
Resin		.)			
Resin Plaster .					13 parts.
Soap Plaster .	-				8 parts.
Boiling Water	14 100				5 fluid parts.
TOUT	 * 11	1			

Infuse the cantharides in the boiling water for six hours, strain, evaporate, then add the other ingredients, and melt in a water-bath.

EMPLASTRUM CANTHARIDIS.

Cantharides, in				4 parts.
Yellow Wax Prepared Suet	of each		•	21 parts.
Prepared Lard				2 parts.
Resin				1 part.

EMPLASTRUM FERRI.

Peroxide of Iron,	in fine	powde	er .	1 part.
Burgundy Pitch				2 parts.
Lead Plaster .				8 parts.

EMPLASTRUM GALBANI.

Galbanum Ammoniacum	of each			1 part.
Yellow Wax) Lead Plaster .				8 parts.

EMPLASTRUM HYDRARGYRI.

Mercury				3 ounces.
Olive Oil				56 grains.
Sublimed St	lphur			8 grains.
Lead Plaste	r .			6 ounces.

EMPLASTRUM MENTHOL.

Menthol					2 parts.
Yellow Wa	х.			•	1 part.
Resin .					7 parts.

EMPLASTRUM OPII.					
Opium, in the finest po	wder	1			1 part.
Resin Plaster .					9 parts.
			100		-
EMPLASTRUM PICIS.					
Burgundy Pitch .					26 parts.
Common Frankincense					13 parts.
Resin Yellow Wax of each					
					4½ parts.
Expressed Oil of Nutme	g				1 part.
Olive Oil Water of each .			A STATE	1	2 fld. parts
water J		5			
EMPLASTRUM PLUMBI.					
Oxide of Lead, in fine p	owde	-			5 parts.
Olive Oil	Under		in the second		10 parts.
Water					5 parts.
					e parts.
EMPLASTRUM PLUMBI	IODI	DI.			
Iodide of Lead .					1 part.
Lead Plaster					8 parts.
Resin	. 1				1 part.
EMPLASTRUM RESINÆ.					
Resin				. 1	2 parts.
					16 parts.
					1 part.
EMPLASTRUM SAPONIS.					
Curl Coon					0

s.

Curd Soap . Lead Plaster . 6 parts. 36 parts. 1 part. . . Resin . .

EMPLASTRUM SAPONIS FUSCUM.

Curd Soap, in powder	r .			10 parts.
Yellow Wax		1.00		121 parts.
Olive Oil				20 fld. parts.
Oxide of Lead .	1026.25	1.53		15 parts.
Vinegar				160 parts.

ENEMA ALOES.					
Aloes			in the second	1	40 grains.
Carbonate of Potassium					15 grains.
Mucilage of Starch .					10 fld. ounces.
ENEMA ASAFETIDÆ.					
Asafœtida					20 mains
The sell of the s		:			
District Hater .					4 nu. ounces.
ENEMA MAGNESII SULI	PHAT	IS.			
Sulphate of Magnesia					
Olive Oil					1 fld. ounce.
Mucilage of Starch .	•	•	•		2 fld. ounces.
ENEMA OPII.					
Tincture of Opium .				1	1 fld. drachm.
Mucilage of Starch .					and the second sec
· · · · · · · · · · · · · · · · · · ·					
ENEMA TEREBINTHINÆ					
Oil of Turpentine .					1 fld. ounce.
Mucilage of Starch .					15 fld. ounces.
ESSENTIA ANISI.					
				1	1 fld. part.
					4 fld. parts.
1					
ESSENTIA MENTHÆ PIP					
Oil of Peppermint . Rectified Spirit .					1 fld. part.
Rectified Spirit .					4 fld. parts.
EXTRACTUM ACONITI.					
The fresh Leaves and F	lower	ring J	Cops	of	
Aconite					112 pounds.
Bruise, press out the juic					
and separate the green					
by a calico filter. Hea					
albumen, filter, and eva					
to syrupy consistence,	add	the	gree	en	
colouring matter, pass	thro	ugh a	a siev	e,	
and evaporate to suitab	te coi	isiste:	nce.		

13	
XTRACTUM ALOES BARBADENSIS.	
Barbadoes Aloes, in small fragments .	1 pound.
Boiling Distilled Water	1 gallon.
XTRACTUM ALOES SOCOTRINÆ.	
Socotrine Aloes, in small fragments .	1 pound.
Boiling Distilled Water	1 gallon.
XTRACTUM ANTHEMIDIS.	
Chamomile Flowers	1 pound.
Oil of Chamomile	1 gallon.
EXTRACTUM BELÆ LIQUIDUM.	1 pound.
Bael Fruit	12 pints.
Rectified Spirit	3 fld. ounces.
EXTRACTUM BELLADONNÆ.	
The fresh Leaves and young Branches	
of Belladonna	112 pounds.
Prepare in same manner as Extractum Aconiti.	
EXTRACTUM BELLADONNÆ ALCOHOLICU	M.
Belladonna Root, in No. 20 powder .	1 pound
Rectified Spirit of each	q.s.
Made by maceration and percolation ; then evaporate the percolated liquid.	
EXTRACTUM CALUMBÆ.	
Calumba Root, cut small	1 pound.
Proof Spirit	4 pints.
Exhaust by macerating twice, and evapor- ate to suitable consistence.	
EXTRACTUM CANNABIS INDICÆ.	
Indian Hemp, in coarse powder	
Rectified Spirit	4 pints.
Macerate, press, and evaporate to suitable consistence.	

EXTRACTUM CASCARÆ SAGRADÆ.

EXTRACTUM CASCARÆ SAGRADÆ LIQUIDUM.

Cascara S	agrada,	in co	arse p	owde	r.		1 pound.
Rectified	Spirit						4 fld. ounces.
Distilled	Water						q.s.
Exhaust	by boili	ng in	thre	e or t	four s	suc-	
cessive o							
evaporat							
up to six	cteen flu	id ou	nces '	with v	vater		

EXTRACTUM CIMICIFUGÆ LIQUIDUM.

Cimicifuga, in No. 60 powder . . 20 ounces. Rectified Spirit q.s. Exhaust by maceration and percolation, then evaporate, and finally make up to twenty fluid ounces.

EXTRACTUM CINCHONÆ LIQUIDUM.

Red Cinchona Bark, in	No.	60	powder		20 ounces.
Hydrochloric Acid .				•	5 fld. drachms.
Glycerine		•		•	$2\frac{1}{2}$ fld. ounces.
Rectified Spirit Distilled Water of eac	eh	•	•	•	q.s.

Exhaust by maceration and percolation. Evaporate to twenty fluid ounces. The finished liquid extract should contain five grains of the alkaloids of the bark in every hundred fluid grains.

EXTRACTUM COCÆ LIQUIDUM.

20 ounces. q.s.

15	
EXTRACTUM COLCHICI. Fresh Colchicum Corms, deprived of their coats	7 pounds.
EXTRACTUM COLCHICI ACETICUM. Fresh Colchicum Corms, deprived of their coats coats . Acetic Acid . Crush the corms, add the acid, express the juice, heat, strain, and evaporate.	7 pounds. 6 fld. ounces.
Curd Soap, in powder	6 ounces. 12 ounces. 4 ounces. 3 ounces. 1 ounce.
EXTRACTUM CONII. The fresh Leaves and young Branches of Hemlock Prepare as Extractum Aconiti. EXTRACTUM ERGOTÆ LIQUIDUM. Ergot, crushed Distilled Water Rectified Spirit Exhaust the ergot by mecorating twice to the second termine termine to the second termine to the second termine termine to the second termine te	112 pounds. 1 pound. 6 pints. 6 fld. ounces.
 Exhaust the ergot by macerating twice; strain, evaporate, and add the spirit when cold. The product should measure sixteen fluid ounces. EXTRACTUM EUONYMI SICCUM. 	

Euonymus Bark, in No. 20 powder . . 1 pound.

Rectified Spirit Distilled Water Sugar of Milk Percolate with water and spirit ; evapo- rate, and let the fluid product contain 80 per cent. of the dry extractive.	q.s.
EXTRACTUM FILICIS LIQUIDUM.	
Male Fern, in coarse powder Ether	2 pounds. 4 pints or q.s.
EXTRACTUM GELSEMII ALCOHOLICUM	
Gelsemium, in No. 60 powder	1 pound.
Rectified Spirit)	q.s.
	dien
Exhaust by maceration and percolation, and evaporate.	
EXTRACTUM GENTIANÆ.	
Gentian Root, sliced Boiling Distilled Water	1 pound.
	1 gallon.
Infuse, boil, and evaporate.	
EXTRACTUM GLYCYRRHIZÆ.	
Liquorice Root, in No. 20 powder	1 pound.
Distilled Water	4 pints.
Macerate twice, strain and evaporate.	
EXTRACTUM GLYCYRRHIZÆ LIQUIDUM.	
Liquorice Root, in No. 20 powder	
Distilled Water	4 pints. q.s.
Exhaust by macerating twice with water;	
strain, evaporate, and filter.	
EXTRACTUM HAMAMELIDIS LIQUIDUM.	
Hamamelis Leaves, in No. 40 powder .	20 ounces.
Rectified Spirit of each	q.s.
Exhaust by percolation, and evaporate.	

The finished product should measure one pint.

XTRACTUM HÆMATOXYLI.

Logwood, in fine chips .		. 1	l pound.
Boiling Distilled Water .		. 1	gallon.
Infuse, and evaporate.			

IXTRACTUM HYDRASTIS LIQUIDUM.

Hydrastis Rhizome, in No. 60 powder . 20 ounces. Rectified Spirit equal fluid parts . . q.s. Distilled Water equal fluid parts . . q.s. Exhaust by percolation ; evaporate, and let the finished product measure one pint.

XTRACTUM HYOSCYAMI.

The fresh Leaves, flowering Tops,	and	
young Branches of Henbane		112 pounds.
Prepare as Extractum Aconiti.		

XTRACTUM JABORANDI.

Jaborandi, in No. 40 powder	•		•	1 pound.
Proof Spirit Distilled Water of each			•	q.s.
Extract by maceration and then evaporate.	per	colati	on;	

XTRACTUM JALAPÆ.

Jalap, in	coarse p	owder					1 pound.
Rectified Distilled			•				4 pints.
Exhaust		macer	ratio		mir	the	1 gallon.
extracts	, and eva	aporate	2.	, one	IIIIX	the	

EXTRACTUM KRAMERIÆ.

C

EXTRACTUM LACTUCÆ.

The flowering Herb of Lettuce . . 112 pounds. Prepare as Extractum Aconiti.

EXTRACTUM LUPULI

Нор						1 pound.
Rectified Spirit						11 pints.
Distilled Water				1.1.		1 gallon.
Exhaust by macer evaporate.	atio	ı; bo	il, sti	rain,	and	

EXTRACTUM MEZEREI ÆTHEREUM.

Mezereon	Bark, (cut sr	nall				1 pound.
Rectified a							
Ether .	• .						1 pint.
Exhaust b evaporate due with	and	mace	rate :	alcoho	olie r	esi-	

EXTRACTUM NUCIS VOMICÆ.

Nux Vomica .						1 pound.
Rectified Spirit						64 fld. ounces.
Distilled Water						
Exhaust by machine then press and extract should total alkaloid.	eva	porate	3.	Finis	hed	

pound. pints.

EXTRACTUM OPII.

Opium, i	n powder						1
Distilled	Water						6
Exhaust	by three	mac	eratio	ons, 1	mix t	he	
liquors,	and evapo	orate.	Fin	ished	extra	act	
should	yield abo	ut 20	per	cent.	of m	or-	
phine.							

EXTRACTUM OPII LIQUIDUM.

Extract of Opium			1 ounce.
Distilled Water			16 fld. ounces.

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Rectified Spirit

Macerate and filter. Contains twenty-two grains of extract of opium in the fluid ounce. Yields one per cent. of morphine.

.

XTRACTUM PAPAVERIS.

Poppy Capsules, freed	from	the s	seeds,	
and in No. 20 powder Rectified Spirit	• •			1 pound.
Boiling Distilled Water	• •			2 ounces.
Infuse, percolate, and ev		te.		q.s.

XTRACTUM PAREIRÆ.

Pareira Root, in N	lo. 40 powder	. 1		1 pound.
Boiling Distilled			1.	q.s.
Digest, percolate,	and evaporate.			

XTRACTUM PAREIRÆ LIQUIDUM.

Extract of Pareira Distilled Water Rectified Spirit	of each				q.s.
Dissolve four parts cient spirit and w sixteen fluid parts	ater (1 t	0 31	t in su to fo	ıffi- orm	

XTRACTUM PHYSOSTIGMATIS.

Rectified Spirit		1 pound.
		4 pints.
Macerate, percolate, press, and evapo	orate.	

XTRACTUM QUASSIÆ.

Quassia Wood, rasped Distilled Water	•				1 pound.
Macerate, percolate, filt	er. a	nd ev	apora	to '	q.s.

XTRACTUM RHAMNI FRANGULÆ.

Rhamnus	Frangula	Bark,	in	No.	40	
Dowder						1 pound.
Proof Spir. Water						q.s.
Macerate,	percolate, a	and eva	pora	.te.		

. 4 fld. ounces.

Rhamnus Frangu	la Barl	t, in c	oarse	pow-	
der					1 pound.
Rectified Spirit					4 fld. ounces.
Distilled Water					q.s.
Boil the bark in quantities until the liquors and	exhau				
TTTT A CONTRACT TO TTTT					

EXTRACTUM RHEI.

Rhubarb Root, in No. 40 powder . . 1 pound. Proof Spirit Distilled Water of each . . . q.s.

Macerate, percolate, and evaporate.

EXTRACTUM SARSÆ LIQUIDUM.

Jamaica Sarsapar	illa, i	in No	. 40 1	oowde	er.	40 ounces.
Proof Spirit .						2 pints.
Sugar						5 ounces.
Distilled Water						12 pints.
Exhaust by two time, mix, and			ns, p	ress e	ach	

EXTRACTUM STRAMONII.

Stramonium Seeds, in No. 4	0 powder	
Ether		1 pint or q.s.
Distilled Water of each.		q.s.
Percolate the powdered seed		

then afterwards with spirit, and evaporate.

EXTRACTUM TARAXACI.

Fresh Dande	lion Root		4 pounds.
Crush, press,	strain, and	evaporate.	

EXTRACTUM TARAXACI LIQUIDUM.

Dry Dandelion R	oot, i	n No.	20 I	oowde	r.	40 ounces.
Proof Spirit .					•	4 pints.
Distilled Water						q.s.
Exhaust by two m mix, and evapor		ations,	pres	s, str	ain,	

21	
EL BOVINUM PURIFICATUM.	
Fresh Ox Bile	1 pint. q.s.
ERRI ET AMMONII CITRAS.	
Solution of Persulphate of Iron . 10 ff Solution of Ammonia	d. ounces or q.s. 4 ounces.
ERRI ET QUININÆ CITRAS.	
Solution of Persulphate of Iron Sulphate of Quinine	1 ounce. 12 fld. drachms. 3 oz. 30 grs.
Dilute the ammonia, and add the solution of persulphate of iron, stir, filter through calico, and wash the ferric hydrate. Dissolve the quinine in Ac. Sulph. Dil., and precipitate it with ammonia. Add the citric acid in solution to the ferric hydrate, dissolve, and add the quinine. Add more ammonia gradually, filter, and evaporate to a syrupy consist- ency, then dry in thin layers on glass plates.	
LYCERINUM ACIDI CARBOLICI.	
Carbolic Acid Glycerine	1 part. 4 fid. parts.

			-			
GLYCERINUM ACID	TG	ATTT	CT			
						Tourst
Gallic Acid . Glycerine .		•	•	•	•	1 part.
diycerine .	•	•	•	•	•	4 fld. parts.
GLYCERINUM ACID	I T	ANNI	ICI.			
Tannie Acid .						1 part.
Glycerine .						4 fld. parts.
and the second s						Larm
GLYCERINUM ALU						
Alum, in powder						1 part.
Glycerine .						5 fld. parts.
ATTANTA ANT						
GLYCERINUM AMY						- The second second
Starch			•			1 part.
Glycerine .	•	•				5 fld. parts.
Distilled Water	•	•	•			3 fld. parts.
GLYCERINUM BORA	CIS					
						1 onnos
Borax, in powder Glycerine		•				4 fld norte
Distilled Water		•	•			2 fld. parts.
Distinct Water		•				2 nd. parts.
GLYCERINUM PLUN	IBI	SUB.	ACET	ATIS.		
Acetate of Lead						5 ounces.
Oxide of Lead						
Glycerine .						
Distilled Water						12 fld. ounces.
Mix and boil toge						
hour.			1		•	
GLYCERINUM TRAC	ACA	NTH	Æ.			
Tragacanth, in po	wder	· .				3 parts.
Glycerine .						12 fld. parts.
Distilled Water						2 fld. parts.
		-				
HYDRARGYRUM CU						
Mercury, by weigh Prepared Chalk	nt					1 ounce.
Prepared Chalk		•	+	•		2 ounces.
	TDTO					
INFUSUM ANTHEM.						Martin Providence
Chamomile Flower	rs				•	1 part.

	23				
Boiling Distilled Water Infuse fifteen minutes.	•	•		•	20 fld. parts.
IFUSUM AURANTII.					
Bitter Orange Peel, cut Boiling Distilled Water Infuse fifteen minutes.	small •	•	•	•	1 part. 20 parts.
IFUSUM AURANTII CON	TPOS	ITUN	τ.		
Bitter Orange Peel . Fresh Lemon Peel . Cloves, bruised . Boiling Distilled Water Infuse fifteen minutes.					Inart
IFUSUM BUCHU.					
Buchu Leaves Boiling Distilled Water Infuse thirty minutes.	•		•	•	1 part. 20 fld. parts.
IFUSUM CALUMBÆ.					
Calumba Root Cold Distilled Water Macerate thirty minutes.		:		•	1 part. 20 fld. parts.
FUSUM CARYOPHYLLI.					
Cloves Boiling Distilled Water Infuse thirty minutes.					1 part. 40 fld. parts.
FUSUM CASCARILLÆ.					
Cascarilla Bark Boiling Distilled Water Infuse thirty minutes.			•	•	1 part. 10 fld. parts.
IFUSUM CATECHU.					
Catechu Cinnamon Bark Boiling Distilled Water Infuse thirty minutes.					160 grains. 30 grains. 10 fld. ounces.

 INFUSUM CHIRATÆ.

 Chiretta, cut small
 1 part.

 Distilled Water
 40 parts.

 INFUSUM CINCHONÆ ACIDUM.

 Red Cinchona Bark, in No. 40 powder
 1 part.

 Aromatic Sulphuric Acid
 1 part.

 Aromatic Sulphuric Acid
 1 part.

 Boiling Distilled Water
 20 parts.

 Infuse one hour.
 1 part.

 Stilled Water
 20 parts.

 Infuse one hour.
 1 part.

 Distilled Water
 20 parts.

 Infuse one hour.
 1 part.

 Distilled Water
 1 part.

 Distilled Water
 1 part.

 Distilled Water
 1 part.

 Infuse one hour.
 1 part.

 Infuse one hour.
 1 part.

 Infuse one hour.
 1 part.

 Boiling Distilled Water
 1 part.

 Infuse fifteen minutes.
 Not to be strained.

 INFUSUM DIGITALIS.
 1 part.

 Foxglove Leaves
 1 part.

Foxglove Leaves....1 part.Boiling Distilled Water....156 parts.Infuse fifteen minutes.

INFUSUM ERGOTÆ.

Ergot, crushed .			1 part.
Boiling Distilled Water			40 parts.
Infuse thirty minutes.			

INFUSUM GENTIANÆ COMPOSITUM.

Gentian Root Bitter Orange Peel of each Fresh Lamon Peel		1 part.
Fresh Lemon Peel		2 parts.
Boiling Distilled Water .		 80 parts.
Infuse thirty minutes.		

INFUSUM JABORANDI.

Jaborandi, cut sm	all .				1 part.
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25				
Boiling Distilled Water . Infuse thirty minutes.	•	•	•	20 fld. parts.
MFUSUM KRAMERIE. Rhatany Root, in No. 40 pow Boiling Distilled Water . Infuse thirty minutes.	rder •		•	1 part. 20 fld. ounces.
NFUSUM LINI. Linseed Dried Liquorice Root, in No. Boiling Distilled Water . Infuse two hours.	20 pc	wder	• • • •	3 parts. 1 part. 87½ fid. parts.
NFUSUM LUPULI. Hop Boiling Distilled Water . Infuse one hour.	•	•	•	1 part. 20 fld. parts.
Matico Leaves Boiling Distilled Water . Infuse thirty minutes.	•	•		1 part. 20 fld. parts.
INFUSUM QUASSIÆ. Quassia Wood, in chips . Cold Distilled Water . Macerate for thirty minutes.	•		•	1 part. 80 fld. parts.
NFUSUM RHEI. Rhubarb Root, in thin slices Boiling Distilled Water . Infuse thirty minutes,				1 part. 40 fld. parts.
INFUSUM ROSÆ ACIDUM. Dried Red Rose Petals . Diluted Sulphuric Acid . Boiling Distilled Water . Add the acid to the water, thirty minutes.	:		•	2 parts. 1 fid. part. 80 fid. parts.

20
INFUSUM SENEGÆ. Senega Root, in No. 20 powder 1 fld. part. Boiling Distilled Water 20 fld. parts. Infuse thirty minutes.
INFUSUM SENNÆ. Senna 2 parts. Ginger, sliced 2 parts. Boiling Distilled Water 3 part. Infuse thirty minutes. 20 fld. parts.
INFUSUM SERPENTARIÆ.Serpentary Root, in No. 20 powder 1 part.Boiling Distilled Water 40 fld. parts.Infuse thirty minutes.
INFUSUM UVÆ URSI. Bearberry Leaves, bruised 1 part. Boiling Distilled Water 20 fld. parts. Infuse one hour.
INFUSUM VALERIANÆ. Valerian Rhizome, bruised . . 1 part. Boiling Distilled Water . . . 1 parts.
INJECTIO APOMORPHINÆ HYPODERMICA. Hydrochlorate of Apomorphine 2 grains. Camphor Water 100 minims. Dissolve and filter. 100 minims.
INJECTIO ERGOTINI HYPODERMICA.Ergotin
INJECTIO MORPHINE HYPODERMICA. Hydrochlorate of Morphine 92 grains. Solution of Ammonia Acetic Acid Distilled Water of each q.s.

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Dissolve the morphine in two ounces of water with gentle heat, precipitate with ammonia, collect precipitate in a filter, wash, and add one ounce of water, heat gently, and carefully add acetic acid until the morphine is dissolved. Make up to two ounces. Contains one grain of the acetate in ten minims.
INIMENTUM ACONITI.
Aconite Root, in No. 40 powder20 ounces.Camphor1 ounce.Rectified Spirit9.8. to 30 fld. ounces.Macerate the root, then percolate, and allow to drop into a receiver containing the camphor.
INIMENTUM AMMONIÆ.
Solution of Ammonia 1 fld. part. Olive Oil
INIMENTUM BELLADONNÆ.
Belladonna Root, in No. 40 powder . 20 ounces.
Rectified Spirit 1 ounce.
Macerate the root, then percolate, and allow to drop into a receiver containing the camphor.
NIMENTUM CALCIS.
Solution of Lime 1 part. Olive Oil 1 part.
Olive Oil 1 part.
Mix with agitation.
MIMENTUM CAMPHORÆ.
Camphor · · · · · · · · 1 part. Olive Oil · · · · · · · · · 4 fld. parts.
MNIMENTUM CAMPHORÆ COMPOSITUM.
Camphor 20 parts.

Oil of Lavender . Strong Solution of An Rectified Spirit . Dissolve the camphor and add the ammonia LINIMENTUM CHLOROH Chloroform	and o a gra	nia . Dil in t dually II .	he sp	: irit,	40 fld. parts. 120 fld. parts.
Liniment of Camphor Mix.	•	•	•		1 fld. part.
LINIMENTUM CROTONI	S.				
Croton Oil Oil of Cajuput . Rectified Spirit . Mix.			• • •		2 fld. parts. 7 fld. parts. 7 fld. parts. 7 fld. parts.
LINIMENTUM HYDRAR	GYR	T			
Ointment of Mercury Solution of Ammonia Liniment of Camphor Mix the ammonia with liniment, and rub the	hal	f the	camp	hor	1 part. 1 fld. part. 1 fld. part.
other half. Mix.					
TININENTIN TODI					
LINIMENTUM IODI.					5 manta
Iodine		1	•	•	5 parts.
Iodide of Potassium Glycerine	•	•	•	•	1 parts.
Rectified Spirit					40 fld. parts.
Dissolve.					1
LINIMENTUM OPII.					
Tincture of Opium .					1 fld. part.
Liniment of Soap . Mix.	•		·	•	1 fld. part.
LINIMENTUM POTASSII	IOI	IDI	CUM	SAP	ONE.
Curd Soap, cut small					
Iodide of Potassium					12 parts.
Glycerine					8 fld. parts.

	29			
Oil of Lemon Distilled Water				1 fld. part. 80 fld. parts.
Dissolve the soap in the water over a water-bath. of potassium in a mortan add the liquid. Tritura add the oil of lemon.	Place the powde	he iodic r it, an	le id	
LINIMENTUM SAPONIS.				
Hard Soap, in fine shavin				16 parts.
Camphor				8 parts.
Oil of Rosemary .				3 nd. parts.
Rectified Spirit Distilled Water .				32 fld. parts.
Macerate seven days.				ou na. parts.
LINIMENTUM SINAPIS CO	MPOST	тим		
Oil of Mustard				1 fld. drachm.
Ethereal Extract of Meze			-	40 grains.
Camphor				120 grains.
Castor Oil				5 fld. drachms.
Rectified Spirit				4 fld. ounces.
Dissolve the extract and spirit, and add the oils.	campho	or in th	he	
LINIMENTUM TEREBINTH	IINÆ.			
Soft Soap				2 parts.
Distilled Water . Camphor				2 fld. parts.
Camphor				
Oil of Turpentine .				16 fld. parts.
Mix the soap with wat camphor in the turpent whole together.				
LINIMENTUM TEREBINTI	IINÆ .	ACETI	CUM	
Oil of Turpentine .				4 fld. parts.
Glacial Acetic Acid Liniment of Camphor		10 . 1		1 part.
Liniment of Camphor Mix.			-	4 fld. parts.
ALLX.				

LIQUOR AMMONIÆ FORTIOR.

Ammoniacal gas dissolved in water, 32.5 per cent. solution. S.G. '891.

LIQUOR AMMONII ACETATIS.

Strong Solution of Acetate of Ammonia . 1 fld. part. Distilled Water . . q.s. to produce 5 fld. parts. S.G. 1.022.

LIQUOR AMMONII ACETATIS FORTIOR.

LIQUOR AMMONII CITRATIS.

Strong Solution of Citrate of Ammonia . 1 fld. part. Distilled Water . . q.s. to produce 4 fld. parts. S.G. 1.062.

LIQUOR AMMONII CITRATIS FORTIOR.

LOUOR ANTIMONII CHLORIDI.

Purified Black Antimony . . . 1 pound. Hydrochloric Acid 4 pints.

Heat the antimony with the acid, filter, and boil down to two pints.

MOUOR ARSENICALIS.

Arsenious Acid, in powder of each Carbonate of Potassium . 87 grains. Compound Tincture of Lavender . Distilled Water Dissolve the arsenious acid and Pot. Carb. in water with heat, adding the Tr. Lavend, when cold. Add water to make one pint.

(1 in 100.)

IQUOR ARSENICI HYDROCHLORICUS.

Distilled Water q.s. Boil the arsenious acid with the hydrochloric acid and four ounces of water. then add water to make one pint. (1 in 100.)

IQUOR ARSENII ET HYDRARGYRI IODIDI.

Iodide of Arsenium Red Iodide of Mercury } of each . . 45 grains. Distilled Water . . q.s. Triturate with water till dissolved, filter, and add sufficient water to make ten fluid ounces. (1 in 100.)

IQUOR ATROPINÆ SULPHATIS.

(1 in 100.)

5 fld. drachms.

q.s.

LIQUOR BISMUTHI ET AMMONII CITRAT	IS.
Citrate of Bismuth	800 grains.
Solution of Ammonia	
Distilled Water } of each	q.s.
Rub the bismuth to a paste with water,	
add the ammonia gradually until it is	
just dissolved, then make up with water	
to one pint.	
LIQUOR CALCII CHLORIDI.	
	1 nart
Chloride of Calcium Distilled Water	5 fld. parts.
	o mai Partor
LIQUOR CALCIS.	
Slaked Lime	2 ounces.
Distilled Water	1 gallon.
LIQUOR CALCIS CHLORINATÆ.	
Chlorinated Lime	I nort
Distilled Water	
	ro parts.
Mix well with agitation, and filter through calico.	
Canco.	
LIQUOR CALCIS SACCHARATUS.	
Slaked Lime	1 part.
Refined Sugar, in powder	2 parts.
Distilled Water	1 pint.
Mix the lime and sugar in a mortar,	
agitate with water in a bottle, and allow	
to stand.	
Contains 7.11 grains CaO to the fld. ounce.	
LIQUOR CHLORI.	
Chlorine gas dissolved in water. The	
solution should be freshly prepared.	
TTOTOD COCATNE TUDDOCUTODATIS	
LIQUOR COCAINÆ HYDROCHLORATIS.	00 mains
Hydrochlorate of Cocaine	35 grains.
Salicylic Acid	a fild drachms.
	o nur uraonnio
(1 in 100.)	

.

QUOR EPISPASTICUS.

IQUOR FERRI ACETATIS.

Strong Solution of Acetate of Iron . 5 fld. ounces. Distilled Water, q.s. to produce, after admixture, 20 fld. ounces. S.G. 1.031.

IQUOR FERRI ACETATIS FORTIOR.

Solution of Persulphate of	Iron			5 fld.	ounces.
Solution of Ammonia .				q.s.	
Glacial Acetic Acid (liq.)				3 fld.	ounces.
Distilled Water	q.s. t	o pro	duce	10 fld.	ounces.

IQUOR FERRI DIALYSATUS.

Strong Solution of Perchloride of Iron . 7 fld. ounces. Solution of Ammonia Distilled Water } of each . . q.s. S.G. 1.407.

IQUOR FERRI PERCHLORIDI.

Strong Solution of Perchloride of Iron . 5 ounces. Distilled Water q.s. to 20 fld. ounces. S.G. 1.11. (1 in 4.)

IQUOR FERRI PERCHLORIDI FORTIOR.

Iron Wire .	2			4 ounces.
Hydrochloric Acid				201 fld. ounces.
Nitrie Acid .				11 fld. ounces.
Distilled Water		. q.s.	to	171 fld. ounces.

IQUOR FERRI PERNITRATIS.

Fine Iron Wire			1.11. 1. 1.	1 ounce.
Nitric Acid .		10.		41 fld. ounces.
Distilled Water				11 pint.
S.G. 1.107.			Storal 1	

Ð

LIQUOR FERRI PERSULPHATIS.

Sulphate of Iron .			8 ounces.
Sulphuric Acid Nitric Acid of eac	h.		6 fld. drachms.
Distilled Water .			
S.G. 1.441.			

LIQUOR GUTTA PERCHA.

Gutta Percha, in thin slices .		1 ounce.
Chloroform		8 fld. ounces.
Carbonate of Lead, in fine powder	-	1 ounce.

LIQUOR HYDRARGYRI NITRATIS ACIDUS.

Mercury .			4 ounces.
Nitric Acid .			5 fld. ounces.
Distilled Water			1늘 fld. ounces.

Mix the acid with the water, and dissolve the mercury in the mixture *without* heat. Boil fifteen minutes, and cool.

LIQUOR HYDRARGYRI PERCHLORIDI.

Perchloride of Me Chloride of Ammo	rcur	${\mathbf{y} \atop {\mathbf{n}}} of$	each		10 grains.
Distilled Water					1 pint.
Dissolve.					

LIQUOR IODI.

Iodine	22 gr	ains.
Iodide of Potassium	33 gr	
Distilled Water .	q.s. to produce 1 fid.	ounce.
Dissolve.		

LIQUOR LITHIÆ EFFERVESCENS.

Carbonate o	f Litl	nium			10 grains
Water .				•	1 pint.
Mix, and fo as can be i about four	introd	uced	with		

LIQUOR MAGNESII CARBONATIS.

Sulphate of Magnesium					2 ounces.
Carbonate of Sodium					$2\frac{1}{2}$ ounces.
Distilled Water .					q.s.
Contains ten grains of M ounce.	lag.	carb. i	in a f	luid	

IIQUOR MAGNESII CITRATIS.

Carbonate of Magnesia					100 grains.
Citric Acid					200 grains.
Syrup of Lemons .					1 fld. ounce.
Bicarbonate of Potassiu	m,	in cryst	als		40 grains.
Water				1.4	q.s.

IQUOR MORPHINÆ ACETATIS.

Acetate of Morphine			9 grains.
Diluted Acetic Acid			18 minims.
Rectified Spirit .			1 fld. ounce.
Distilled Water .			11 fld. ounces.
(1 in 100.)			

IQUOR MORPHINÆ BIMECONATIS.

Hydrochlorate of Morphine				9 grains.
Solution of Ammonia .				q.s.
Meconic Acid				6 grains.
Rectified Spirit			-	a fld. ounce.
Distilled Water				q.s.
Dissolve the mombine in	1:4	-1- ····		d.a.

Dissolve the morphine in a little water with gentle heat, precipitate with ammonia, wash, drain, and mix precipitate with sufficient water to produce one and a half ounces, then add the spirit and acid, and dissolve.

(1 in 100.)

QUOR MORPHINE HYDROCHLORATIS.

Hydrochlorate of Morphine		9 grains.
Diluted Hydrochloric Acid		18 minims.
Rectified Spirit		1 fld. ounce.
Distilled Water		11 fld. ounces.

00
LIQUOR MORPHINE SULPHATIS. Sulphate of Morphine
LIQUOR PLUMBI SUBACETATIS.
Acetate of Lead5 ounces.Oxide of Lead $3\frac{1}{2}$ ounces.Distilled Water1 pint or q.s.
Boil together for thirty minutes, filter, and make up to one pint.
LIQUOR PLUMBI SUBACETATIS DILUTUS.
Solution of Subacetate of Lead of each . 1 fld. part. Rectified Spirit
LIQUOR POTASSÆ.
Carbonate of Potassium 1 pound. Slaked Lime, washed 12 ounces. Distilled Water 1 gallon.
One fluid ounce contains twenty-seven grains of hydrate of potassium. S.G. 1.058.
LIQUOR POTASSÆ EFFERVESCENS.
Bicarbonate of Potassium 30 grains. Water 1 pint.
Dissolve, and force into it as much CO_2 as can be introduced with a pressure of about four atmospheres.
LIQUOR POTASSII PERMANGANATIS.
Permanganate of Potassium 1 part. Distilled Water
LIQUOR SODÆ.
Carbonate of Sodium

01	
Distilled Water	1 gallon.
IQUOR SODÆ CHLORINATÆ.	
Chlorinated Lime	16 ounces.
Carbonate of Sodium	14 ounces.
Distilled Water	1 gallon.
IQUOR SODÆ EFFERVESCENS.	
Bicarbonate of Sodium	30 grains.
Water	1 pint.
Dissolve, and force into it as much pure CO_2 as can be introduced with a pressure of about four atmospheres.	
IQUOR SODII ARSENIATIS.	
Arseniate of Sodium (rendered anhydrous	
by a temperature not exceeding 300° F.)	9 grains.
Distilled Water	2 fld. ounces.
IQUOR SODII ETHYLATIS.	
Metallic Sodium, free from oxide	
Ethylic Alcohol	1 fld. ounce.
IQUOR STRYCHNINÆ HYDROCHLORATIS	1.
Strychnine Diluted Hydrochloric Acid	14 minims.
Rectified Spirit	1 fld. ounce.
Distilled Water	15 nd. ounces.
IIQUOR TRINITRINI.	
Pure Nitro-glycerine 1 Rectified Spirit	part by weight.
Rectified Spirit	100 fld. parts.
IQUOR ZINCI CHLORIDI.	
Granulated Zinc	1 pound.

00				
Hydrochloric Acid				44.0.3
Solution of Chlorine	•	-		44 fld. ounces.
Carbonate of Zinc	•	•		4.s.
Distilled Water		•	·	1 pint.
				r pint.
LOTIO HYDRARGYRI FLAVA.				
Perchloride of Mercury .				18 grains.
Solution of Lime				10 fld. ounces.
LOTIO HYDRARGYRI NIGRA.				
Subchloride of Mercury .			-	30 grains.
Solution of Lime				10 fld. ounces.
THE DODIOTS				
MEL BORACIS.				
Borax, in fine powder .		•-		2 parts.
Glycerine				1 part.
Clarified Honey	•	•	•	16 parts.
MEL DEPURATUM.				
Honey	•	•	•	5 pounds,
Melt and strain.				
MISTURA AMMONIACI.				
	1			1
Ammoniacum, in coarse powe	aer		•	4 ounce.
Distilled Water	·	·		o na, ounces.
Add the water gradually with and strain.	1 trit	uratio	n,	
and strain.				
MISTURA AMYGDALÆ.				
Compound Powder of Almone	de			1 part.
Distilled Water	us		•	8 fld. parts.
Add the water gradually, th				o na. parts.
strain.	inuna	ne, a	na	
bulain.				
MISTURA CREASOTI.				
Creasote				15 minims.
C1 1 1 1 1 1 1 1 1	1000			15 minims.
Spirit of Juniper				
Syrup				1 fld. ounce.
Distilled Water				15 fld. ounces.

Mix the creasote with the acid, add the water gradually, and finally the syrup and spirit of juniper.

ISTURA CRETÆ.

Prepared Chalk						‡ ounce.
Gum Acacia .						
Syrup						1/2 fld. ounce.
Cinnamon Water	r .					$7\frac{1}{2}$ fld. ounces.
Triturate the cl	halk	and	gum	with	the	
cinnamon water	r, and	d add	the s	yrup.		

ISTURA FERRI AROMATICA.

Red Cinchona Bark, in powder		1 ounce.
Calumba Root, in powder .		1/2 ounce.
Cloves, bruised		
Fine Iron Wire		
Compound Tincture of Cardamo		
Tincture of Orange Peel		1/2 fld. ounce.
Peppermint Water . q.s.	to measure	121 fld. ounces.
Macerate the solid ingredients	for three	
days, filter, and finally add the	tinctures.	

ISTURA FERRI COMPOSITA.

Sulphate of Iron .				. 1	25 grains.
Carbonate of Potassium					
Myrrh					60 grains.
Spirit of Nutmeg .			1.15		4 fld. drachms.
Rose Water					
Powder the myrrh, and and sugar, triturate wi water, and add the spir the sulphate of iron, remainder of the water	ith a it of dis	portinutm	ion of leg; t	the hen	

ISTURA GUAIACI.

Guaiacum Resin Refined Sugar } of each			$\frac{1}{2}$ ounce.
Gum Acacia, powdered .			‡ ounce.
Cinnamon Water	-	1911	1 pint.
Triturate.			-

MISTURA OLEI RICINI.

Castor Oil				6 fld. drachms.
Oil of Lemon				10 minims.
Oil of Cloves				2 minims.
Syrup				11 fld. drms.
Solution of Potash .	1.		1	1 fld. drachm.
Orange-flower Water		 10.00		2 fld. ounces.

Mix the oils in a mortar, add one-third of sol. potash and incorporate, then add the syrup and an additional third of the sol. potash, add gradually the orange-flower water and remainder of the sol. potash, and make up with the orange-flower water that is left.

MISTURA SCAMMONII.

Scamm	ony,	in po	owder		•	•	6 grains.	
Milk							2 fld. ounces.	
Tritura	te.							

MISTURA SENNÆ COMPOSITA.

Sulphate of Magnesia	4 ounces.
Liquid Extract of Liquorice	
Tincture of Senna	
Compound Tincture of Cardamoms	11 fld. ounces.
Infusion of Senna	
Dissolve the Mag. sulph. in infusion of	
senna with gentle heat, then add the	
extract and the tinctures.	

MISTURA SPIRITUS VINI GALLICI.

French Brandy Cinnamon Water of each	•	•	4 fld. ounces.
The Yolks of two Eggs			1/2 ounce.
Rub the yolks and sugar add the cinnamon water a		hen	

MUCILAGO ACACIÆ.

Gum Acacia, in	small	pieces		4 ounces.
Distilled Water				6 fld. ounces.

UJCILAGO AMYLI.

Starch .	1					120 grains.	
Distilled	Water				Party Co	10 fld. ounces	
Triturate,	then b	oil for	r a few	min	nutes.		

UCILAGO TRAGACANTHÆ.

Tragacanth, in powder					60 grains.
Distilled Water .		-			10 fld. ounces.
Rectified Spirit .			-		2 fld. draehms.
Mix the tragacanth wi	ith	the sp	irit,	add	
the water, and shake	vigo	rously			

FEATUM HYDRARGYRI.

Yellow Oxide of	Mercury				1 part.
Oleic Acid .					9 parts.
To the oleic acid					
ally the oxide o		and	tritui	rate	
until dissolved.					

IEATUM ZINCI.

Oxide of Zinc			1 part.
Oleic Acid .			9 parts

EUM PHOSPHORATUM.

Phosphorus in Solution in Oil of Almonds 1 per cent.

IYMEL.

Clarified Honey						8 parts.
Acetic Acid						1 fld. part.
Distilled Water						1 fld. part.
Liquify the honey, ingredients.	and	lmixv	vith t	the ot	ther	

YMEL SCILLÆ.

Vinegar of Squill .				1 pint.
Clarified Honey .				2 pounds.
Mix and evaporate.	S.G.	1.32.		a Tri Barra

LULA ALOES BARBADENSIS.

Barbadoes Aloes, in pe			2 ounces.
Hard Soap, in powder			1 ounce.

Oil of Caraway .					1 fld. drachm.
Confection of Roses					1 ounce.
PILULA ALOES ET ASA					
Socotrine Aloes, in pow	der		•		1 ounce.
Asafœtida			•	•	1 ounce.
Hard Soap, in powder Confection of Roses	•	•		÷ .	1 ounce.
Confection of Roses			•	about	1 ounce or q.s.
PILULA ALOES ET FER	RI.				
Sulphate of Iron .			-		14 onnces.
Barbadoes Aloes .					2 ounces.
Compound Powder of C	innan	non			3 ounces.
Compound Powder of C Confection of Roses					4 ounces.
PILULA ALOES ET MYR	RHA				
Socotrine Aloes .					2 ounces.
Myrrh					1 ounce.
Saffron, dried .					1 ounce.
Myrrh Saffron, dried . Treacle					1 ounce.
Glycerine					q.s.
PILULA ALOES SOCOTRI	NÆ				
					9
Socotrine Aloes .					
Hard Soap	•				1 dd dweahm
Volatile Oil of Nutmeg	•	•	•		1 na. arachin.
Confection of Roses			•		r ounce.
PILULA ASAFETIDÆ CO	MPO	SITA.			
Asafœtida					
Galbanum } of each					2 ounces.
Myrrh J					
Treacle, by weight.					1 ounce.
Heat all together, by a	means	of a	wat	er-	
bath, to a proper consi					
PILULA COLOCYNTHIDIS	CON	POST	TA.		
Colocynth Pulp, in pow	and the second second				4 narts
Barbadoes Aloes	uor				8 narte
Barbadoes Aloes . Resin of Scammony, in	nowd	er			8 parts
Sulphate of Potassium,	in nor	wder	a lor		1 part.
Oil of Cloves	in po				1 fld. part.
Distilled Water .					
and the state of t		1.	199		Tra

		43				
13	ULA COLOCYNTHIDIS	ET	HYO	SCYA	MI.	
1,100	Compound Pill of Colocy					2 parts.
	Extract of Henbane				in a la	1 part.
				1	-	
11	ULA CONII COMPOSIT.	A.				
	Extract of Hemlock					5 parts.
	Ipecacuanha, in powder .	1				1 part.
	Treacle					q.s.
	ULA FERRI CARBONA					
T	Saccharated Carbonate of					4 narte
	Confection of Roses					
	confection of hoses				-	I part.
1	ULA FERRI IODIDI.					
	Fine Iron Wire		-	-		40 grains.
1	Iodine					80 grains.
	Refined Sugar					70 grains.
	Liquorice Root, in powde	er	100 S.C.			140 grains.
	Distilled Water					50 minims.
Contraction	in a strong bottle, until white. Pour it upon mortar, triturate, and a	the	suga	r in	a	
1	ULA GAMBOGIÆ COM	POS	ITA.			
1	Gamboge				North State	1 ounce.
	Barbadoes Aloes					1 ounce.
	Compound Powder of Cir	nnan	non	1000		
	Hard Soan in nowder					
	Syrup					q.s.
-						
	ULA HYDRARGYRI.					
	Mercury, by weight					2 parts.
	Mercury, by weight Confection of Roses Liquorice Root, in powd		•		10	3 parts.
	Liquorice Root, in powd	er				1 part.
1	ULA HYDRARGYRI S	UBC	HLOI	RIDI	CON	IPOSITA.
	Subchloride of Mercury	10				1 part.
198	Sulphureted Antimony Guaiacum Resin Castor Oil					1 part.
	Guaiacum Resin .	190		1	8.	2 parts.
	Castor OII				. 1	fid. part or q.s.
	Bearing Street and and					

PILULA IPECACUANHÆ CUM SCILLA.

Compound Powder of Ipecacuanha		3 parts.
Squill, in powder		1 part.
Ammoniacum, in powder .		1 part.
Treacle		1 part.

PILULA PHOSPHORI.

Phosphorus .				3 grains.
Balsam of Tolu	u			120 grains.
Yellow Wax .			12.	57 grains.
Curd Soap .				90 grains.

Place the phosphorus and tolu in a mortar about half full of hot water, and when they have become sufficiently soft, rub them well together. Add the wax, and allow to cool without contact with the air.

When dispensed, add one grain of curd soap to two grains of the mass, and if necessary a few drops of S.V.R. to soften.

Three grains of the mass, with soap, contains one-thirtieth of a grain of phosphorus.

PILULA PLUMBI CUM OPIO.

Acetate of Lead				6 parts.
Opium				1 part.
Confection of Rose	88			1 part.

PILULA RHEI COMPOSITA.

Rhubarb Root, in powde	er		6 parts.
Socotrine Aloes, in pow			41 parts.
Myrrh, in powder .			3 parts.
Hard Soap, in powder			3 parts.
Oil of Peppermint .			1 part.
Glycerine			2 parts.
Treacle			6 parts.

PILULA SAPONIS COMPOSITA.

Opium, in powde	er.	*	•	1 part.
Hard Soap .				4 parts.
Glycerine .				q.s.

ILULA SCAMMONII COMPOSITA.

Resin of Scammony .			1 part.
Resin of Jalap	1		1 part.
Curd Soap, in powder .	• •	7	1 part.
Strong Tincture of Ginger			1 fld. part.
Rectified Spirit			2 fld. parts.

Add the spirit and tincture to the soap and resins, and dissolve with heat, then evaporate until the mass is a suitable consistence.

ILULA SCILLÆ COMPOSITA.

Squill, in powder .			. 11	parts.
Ginger, in powder .			. 1]	part.
Ammoniacum, in powder	C		. 1	part.
Hard Soap, in powder			. 1	part.
Treacle, by weight .			. 2	parts, or q.s.

ULVIS AMYGDALÆ COMPOSITUS.

Sweet Almonds		8 parts.
Refined Sugar, in powder		4 parts.
Gum Acacia		1 part.

Blanch the almonds and rub them to a smooth consistence, then add the other ingredients.

ULVIS ANTIMONIALIS.

Oxide of Antimony Phosphate of Calcium	•	•		1 part. 2 parts.
Mix.		1		- Parton

ULVIS CATECHU COMPOSITUS.

Catechu, in powder .		4 ounces.
Kino, in powder		2 ounces.
Rhatany Root, in powder		2 ounces.
Cinnamon Bark, in powder		1 ounce.
Nutmeg, in powder .		1 ounce.
Mix		

ULVIS CINNAMOMI COMPOSITUS			
Cinnamon Bark, in powder .			1 ounce.
Cardamom Seeds, in powder .			1 ounce.
Ginger, in powder			1 ounce.
Mix.			
ULVIS CRETÆ AROMATICUS.			
Cinnamon Bark, in powder .	. 3		4 ounces.
Nutmeg, in powder			3 ounces.
Saffron, in powder			3 ounces.
Cloves, in powder			1 ¹ / ₂ ounce
Cardamom Seeds			1 ounce.
Refined Sugar			25 ounces
Prepared Chalk			11 ounces
Mix, and pass through a sieve.			
ULVIS CRETÆ AROMATICUS CU	Mr c	PTO	
Aromatic Powder of Chalk .			39 parts.
Opium, in powder			1 part.
Mix, and pass through a sieve.			- Parts
-			
WINTE TI ATEDINI COMPOSITING			
PULVIS ELATERINI COMPOSITUS			
Elaterin			1 part.
Elaterin			1 part. 39 parts.
Elaterin			1 part. 39 parts.
Elaterin	:		1 part. 39 parts.
Elaterin	:		39 parts.
Elaterin	:		39 parts.2 ounces.
Elaterin	:		2 ounces 2 ounces
Elaterin	rus.		39 parts.2 ounces.
Elaterin	rus.	• • • • • •	2 ounces 2 ounces 1 ounce. 1 ounce.
Elaterin	rus.	• • • • • •	2 ounces. 2 ounces. 1 ounce. 1 ounce.
Elaterin	rus		2 ounces. 2 ounces. 1 ounce. 1 ounce.
Elaterin	rus		2 ounces. 2 ounces. 1 ounce. 1 ounce. 6 ounces
Elaterin	TUS.		2 ounces. 2 ounces. 1 ounce. 1 ounce. 6 ounces.
Elaterin	rus.		2 ounces. 2 ounces. 1 ounce. 1 ounce. 6 ounces.

PULVIS JALAPÆ COMPOSITUS.

Jalap, in powder			5 parts.
Acid Tartrate of Potassium			9 parts.
Ginger, in powder		20.00	1 part.
Mix, and pass through a sie	ve.		

PULVIS KINO COMPOSITUS.

Kino, in powder			15 parts.
Opium, in powder			1 part.
Cinnamon Bark, in powder			4 parts.
Mix, and pass through a sier	ze.		

ULVIS OPII COMPOSITUS.

Opium, in powder			3 parts.
Black Pepper, in powder			4 parts.
Ginger, in powder			10 parts.
Caraway Fruit, in powder			12 parts.
Tragacanth, in powder .			1 part.
Mix, and rub through a siev	re.		distant.

ULVIS RHEI COMPOSITUS.

Rhubarb Ro	oot, in	pow	der			2 parts.
Light Magn	esia					6 parts.
Ginger .				1996		1 part.

Mix, and pass through a sieve.

ULVIS SCAMMONII COMPOSITUS.

Scammony Resin, in pov	vder .		4 parts.
Jalap, in powder .			3 parts.
Ginger, in powder .			1 part.
Mix, and pass through a	sieve.		

ULVIS SODÆ TARTARATÆ EFFERVESCENS.

Tartarated Soda, in dry powder .		120 grains.
Bicarbonate of Sodium, in dry powder		40 grains.
Mix, and wrap in blue paper.		
Tartaric Acid, in dry powder	-	38 grains.
Wrap in white paper.		

PULVIS TRAGACANTHÆ COMPOSITUS.

Tragacanth, in powder Gum Acadia, in powder Starch, in powder	of each		1	part.	
Refined Sugar, in powder Rub well together.		•	3	parts.	

PYROXYLIN.

Cotton Wool .				1 ounce.
Sulphuric Acid Nitrie Acid	} of each	•	:	5 fld. ounces.

SODII CITRO-TARTRAS EFFERVESCENS.

Bicarbonate of Soda, in powder		-	17 parts.
Tartaric Acid, in powder .			9 parts.
Citric Acid, in powder			
Refined Sugar, in powder .			5 parts.
Mix the powders, place in a suita			
heated to between 200° F. and	220°	F.,	
and stir till the powder as	sume	s a	

granular form.

SODII PHOSPHAS EFFERVESCENS.

Phosphate of Soda, in crystals			100 parts.
Bicarbonate of Sodium, in powd	er.		100 parts.
Tartaric Acid, in powder .			54 parts.
Citric Acid, in powder			36 parts.
The final product should weigh ounces, or 200 parts.	abou	t 50	

Dry the phosphate of sodium until it has lost about 60 per cent. of its weight, powder it, and mix with the other ingredients, and proceed as above.

SODII SULPHAS EFFERVESCENS.

Sulphate of Sodium, in crystals .		100 parts.
Bicarbonate of Sodium, in powder .		100 parts.
Tartaric Acid, in powder		54 parts.
Citric Acid, in powder		36 parts.
The final product should weigh about	it 50	
ounces, or 200 parts.		

Dry the sulphate of sodium until it has lost about 56 per cent. of its weight, powder, and mix with the other ingredients.

IRITUS ÆTHERIS.

Ether			10 fid. ound
Rectified Spirit			1 pint.
S.G. 0.809.			

TRITUS ÆTHERIS COMPOSITUS.

Syn.: Hoffman's Anodyne. Gradually mix thirty-six fluid ounces of sulphuric acid with forty fluid ounces of rectified spirit, and let the mixture stand for twenty-four hours. Then distil until the fluid in the retort begins to blacken. Shake the distillate with lime water to neutralize any acid, and remove the supernatant liquor, and expose it to the air for about twelve hours. Pour three drachms of the resulting liquid into a mixture of eight fluid ounces of ether and sixteen fluid ounces of rectified spirit.

IRITUS ÆTHERIS NITROSI.

Nitrie Acid					3 fld. out
Sulphuric Acid .					2 fld. out
Copper, in fine wire					2 ounces.
Rectified Spirit .					q.s.
It should mield mhan	E	1.1	a lease	E. ener	A STATE OF A

It should yield when freshly prepared seven times its volume of nitric oxide gas, and even after the vessel containing it has occasionally been opened, it should yield not much less than five times its volume of the gas.

S.G. 0.840 to 0.845.

IRITUS AMMONIÆ AROMATICUS.

Carbonate of Ammonium Carbonate of Ammonium . . . 4 ounces. Strong Solution of Ammonia . . . 8 fld. ounces.

nces. nces.

E

ces.

Volatile Oil of N	utmeg			and the set		41 fld. drms.
Oil of Lemon.						
Rectified Spirit						A
Water						3 pints.
S.G. 0.886. Pre						- 1
	Tranca	. og u	orreit			
SPIRITUS AMMONI	Æ F	ETID	US.			
Asafœtida .						11 ounaas
Strong Solution of						
Rectified Spirit						
	•		•	•	•	4.5.
S.G. 0.847.						
COTOTOTO ADMODA	OT TO	-	OCTA	TTO		
SPIRITUS ARMORA					-	
Horseradish Root Bitter Orange Pee	, scraj	ped			.]	of each 20 ozs.
Bitter Orange Pee	el, cut	small,	, and	bruis	ed J	
rutinog, bruiseu						2 ounce.
Proof Spirit .					•	1 gallon.
Water					•	3 pints.
Mix, and distil a	gallor	1.				
S.G. about 0.920						
SPIRITUS CAJUPUT	TI.					
Oil of Cajuput						1 fld. ounce.
Rectified Spirit						49 fld. ounces.
Dissolve.						
L'ISSOTTC.						
SPIRITUS CAMPHO	RÆ.					
						1 onnee
Camphor . Rectified Spirit	•	•	•			0 fld onnees
			•	•		o nu. ounces.
Dissolve. S.G. (1.850.					
anthrong attrand	TODA	-				
SPIRITUS CHLOROI						1.0.2
Chloroform .						1 fid. ounce.
Rectified Spirit					•	19 fid. ounces.
Dissolve. S.G. C).871.					
SPIRITUS CINNAM	OMI.					
Oil of Cinnamon	1.7.7					1 fld. ounce.
Rectified Spirit						49 fld. ounces.

01		
PIRITUS JUNIPERI. Oil of Juniper		1 fld. ounce.
Oil of Juniper Rectified Spirit		49 fld. ounces.
PIRITUS LAVANDULÆ.		
Oil of Lavender Rectified Spirit		1 fld. ounce. 49 fld. ounces.
and the second		49 nu. ounces.
PIRITUS MENTHÆ PIPERITA		and the second
Oil of Peppermint Rectified Spirit		1 fld. ounce.
		49 nu. ounces.
PIRITUS MYRISTICÆ.		
Volatile Oil of Nutmeg . Rectified Spirit		1 fld. ounce.
the second s		49 nu. ounces.
S.G. 0.838.		
PIRITUS ROSMARINI.		
		1 fld onnee
Oil of Rosemary Rectified Spirit	and the second	49 fld. ounces.
PIRITUS TENUOIR.		
Rectified Spirit		5 ninte
		3 pints.
MIX. D.G. 0'920.		
It contains, by weight, about 4 and by volume about 57 pe absolute alcohol.	9 per cent., er cent., of	
PIRITUS VINI GALLICI.		
Distilled from French Wine.		
UCCUS BELLADONNÆ.		
Fresh leaves of Belladonna		7 pounds.
neermed Spirit		q.s.
out juice, and to every three	ortar, press	
juice add one of the spirit. for seven days and filter.	Set aside	

			52				
SU	CCUS CONII. Fresh Leaves and I Rectified Spirit	Branc •	ches o	f Hen	nlock		7 pounds. q.s.
SU	CCUS HYOSCYAMI						
	Fresh Leaves and fl Rectified Spirit	ower	ing To	ops of	Hen	bane	7 pounds. q.s.
U	CCUS SCOPARII.						
	Fresh Broom Tops Rectified Spirit	:	•	2	:	•	7 pounds. q.s.
U	CCUS TARAXACI.						
	Fresh Dandelion R Rectified Spirit						
U	PPOSITORIA ACID	I CA	RBOI	LICI	CUM	SA	PONE.
	Carbolic Acid Curd Soap, in powe Glycerine of Starch Divide into twelve	der 1	: :	•	•	•	12 grains. 180 grains.
U	PPOSITORIA ACID	TA	NNI	CI.			
	Tannie Acid . Oil of Theobroma Divide into twelve	:	•	:			
UI	POSITORIA ACIDI				IM S	APO	NE.
	Tannic Acid . Glycerine of Starch Curd Soap, in powe Starch in powder Divide into twelve	ler	•		•	•	36 grains. 30 grains. 100 grains.

s.

SUPPOSITORIA HYDRARGYRI.

Ointment of Mercury Oil of Theobroma .	:	:	:	•	60 grains. 120 grains.
Divide into twelve supp	osit	ories.			

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UPPOSITORIA GLYCERINI.

Gelatine, cut small						1/2 ounce.
Glycerine, by weigh	ht					21 ounces
Distilled Water						q.s.
Soak the gelatine the glycerine and bath until the grains. Make into or two-drachm su	dis mixto ha	solve ture lf-dra	over weig chm,	a wa hs 1,	ter- 560	

UPPOSITORIA IODOFORMI.

Iodoform, in powder				36 grains.
Oil of Theobroma .				144 grains.
Divide into twelve supp	osit	ories.		

UPPOSITORIA MORPHINÆ.

Hydrochlorate of Morphine .		6 grains.
Oil of Theobroma		174 grains.
Divide into twelve suppositorie	es.	

UPPOSITORIA MORPHINÆ CUM SAPONE.

Hydrochlorate of Morph	hine			6 grains.
Glycerine of Starch				30 grains.
Curd Soap, in powder				100 grains.
Starch, in powder .				q.s.
Divide into twelve supp	osit	ories.		

UUPPOSITORIA PLUMBI COMPOSITA.

Acetate of Lead					36 grains.
Opium, in powder				10.	12 grains.
Oil of Theobroma					132 grains.
Divide into twelve	SUD	posit	ories.		

YRUPUS.

Refined Sugar			11.			5 pounds.
Distilled Water						A
Dissolve with the with water to w and a half pound S.G. 1.330.	eigh.	of he	eat. coolin	Make g, se	ven	

ounces.

SYRUPUS AURANTII.

Tincture of Orange Peel1 fid. ounce.Syrup..Syrup..Mix.S.G. should be about 1.282.

SYRUPUS AURANTII FLORIS.

Orange-flower Water			8 fld. ounces.
Defined Curren			3 pounds.
			ounces, or q.s.
Product should weigh pounds.			
S.G. about 1.330.			

SYRUPUS CHLORAL.

Hydrate of Chlora	1					80 grains.
Distilled Water						11 fld. drms.
Simple Syrup						q.s.
Mixed product sh	ould	mea	asure	one	fluid	
ounce.						

S.G. about 1.320.

S.G. about 1.385.

SYRUPUS FERRI IODIDI.

Iron						1 ounce.
Iodine						2 ounces.
Refined Sugar						28 ounces.
Distilled Water						13 fld. ounces.
Product should eleven ounces.	weigh	about	two	poun	ds	

SYRUPUS FERRI PHOSPHATIS.

Granulated Sulphate of Ire	on .		224 grains.
Phosphate of Sodium .			200 grains.
Bicarbonate of Sodium .			56 grains.
Concentrated Phosphoric A			
Refined Sugar			
Distilled Water			8 fld. ounces.
The product should me twelve fluid ounces. Cont			

of about one grain anhydrous phosphate of iron in one fluid drachm. S.G. about 1.305.

YRUPUS FERRI SUBCHLORIDI.

Iron Wire .				300
Hydrochloric Acid				2 fld
Citric Acid .				10 g
Distilled Water			 	10 fl
Svrup	-			q.s.

Mix the hydrochloric acid with one ounce of the water in a flask, add the iron wire, and apply gentle heat. Remove the flask and add the citric acid, filter it into ten fluid ounces of the syrup, then pass the remainder of water through the small filter into the syrup. To the product add sufficient syrup to form one pint of the mixed fluid. S.G. about 1.340.

SYRUPUS HEMIDESMI.

Hemidesmus Root, bruised				4 ounce
Refined Sugar				28 ound
Boiling Distilled Water .				1 pint.
Product should weigh two ounces.	o pou	nds	ten	
S.G. about 1.335.				

SYRUPUS LIMONIS.

Fresh Lemon Peel .					2 ounces.
Lemon Juice, strained					1 pint.
Refined Sugar .					21 pounds
Product should weigh	three	and	a	half	
pounds.					
S.G. about 1:340					

SYRUPUS MORI.

Mulberry Juice			1 .	1 pint.
Refined Sugar				21 pounds.
Rectified Spirit				$2\frac{1}{2}$ fld. ounces.

55

grains. . ounces. rains. d. drms.

> S. ces.

pounds.

Product should weigh three pounds six ounces. S.G. about 1.330.

SYRUPUS PAPAVERIS.

Poppy Capsules, freed fi	om t	the se	eds	, and	
reduced to No. 20 pow					
Rectified Spirit .					16 fld. ounces.
Refined Sugar .					4 pounds.
Boiling Distilled Water			•		q.s.
Product should weigh	six	and	a	half	
pounds.					
S.G. about 1.330.					

SYRUPUS RHEI.

Rhubarb Root, in Coriander Fruit,	No.	20 p	owder	lof	each	2 ounces.
Coriander Fruit,	in No	. 20	powd	er		
						24 ounces.
Rectified Spirit			4			8 fld. ounces.
Distilled Water						24 fld. ounces.
The product show pounds.	ild we	eigh t	two ai	nd a l	alf	
S.G. about 1.310						

SYRUPUS RHEADOS.

Fresh Red Poppy Pe	tals.				13 ounces.
Refined Sugar .					24 pounds.
The					1 pint, or q.s.
Rectified Spirit .					21 fld. ounces.
The product should	weigh	three	pound	ls	
ten ounces.					
S.G. about 1.330.					

SYRUPUS ROSÆ GALLICÆ.

Dried Red Rose Petals					2 ounces.
Refined Sugar .					30 ounces.
Boiling Distilled Water					1 pint.
The product should w fourteen ounces. S.G. about 1.335.	reigh	two	pou	nds	

TRUPUS SCILLÆ.	
Vinegar of Squill	1 pint.
Refined Sugar	21 pounds.
Dissolve with the aid of heat.	
S.G. about 1.345.	
MRUPUS SENNÆ.	
Senna, broken small	
Oil of Coriander	
Refined Sugar	
	5 pints, or q.s. 3 fld. ounces.
Rectified Spirit	o nu. ounces.
The product should weigh two pounds ten ounces.	
S.G. about 1.310.	
TRUPUS TOLU.	
Balsam of Tolu	11
Refined Sugar	1‡ ounces. 2 pounds.
Distilled Water	1 pint, or q.s.
The product should weigh three pounds.	r pine, or que.
S.G. about 1.330.	
TRUPUS ZINGIBERIS.	
	e Ad dame
	6 fld. drms. 19 fld. ounces.
Mix, with agitation.	19 nu. ounces.
INCTURA ACONITI.	
Aconite Root, from plants cultivated in	
Britain, in No. 40 powder	2 ¹ / ₂ ounces.
Rectified Spirit	1 pint.
Macerate forty-eight hours, then per- colate, mix, and make up to one pint.	
INCTURA ALOES.	
Socotrine Aloes, coarse powder	1 ounda
Extract of Liquorice	11 ounces
Proof Spirit	a.s.
Macerate seven days, filter, and make up	1 the second
to one pint.	

TINCTURA ARNICÆ.

Arnica Rhizome, in No. 40 powder . . 1 ounce. Rectified Spirit 1 pint. Macerate forty-eight hours, percolate, press, filter, mix, and make up to one pint.

TINCTURA ASAFETIDÆ.

Asafœtida, in small fragments . . 2¹/₂ ounces. Rectified Spirit q.s. Macerate seven days, filter, and make up to one pint.

TINCTURA AURANTII.

Bitter Orange Peel, cut small and bruised2 ounces.Proof Spirit...Macerate seven days, strain, press, filter,
and make up to one pint.1 pint.

TINCTURA AURANTII RECENTIS.

Bitter Orange					6 ounces.
Rectified Spirit					q.s.
Macerate for a		press,	filter,	and	
make up to one	pint.				

TINCTURA BELLADONNÆ.

DILLO.

Belladonna Leaves, in No. 20 powder . 1 ounce Proof Spirit 1 pint. Macerate forty-eight hours, percolate, filter, mix, and make up to one pint.

TINCTURA BENZOINI COMPOSITA.

Benzoin, in coan	se po	wder				2 ounces.
Prepared Storax						11 ounces.
Balsam of Tolu						1 ounce.
Socotrine Aloes						160 grains.
Rectified Spirit						1 pint.
Macerate seven	days,	filter,	and	make	up	

INCTURA BUCHU.

INCTURA CALUMBÆ.

INCTURA CAMPHORÆ COMPOSITA.

Opium, in pov	vder			40 grains.
Benzoic Acid				40 grains.
Camphor	. /			30 grains.
Oil of Anise				1 fld. drachm.
Proof Spirit				1 pint.

Macerate seven days, filter, and make up to one pint. Contains one-quarter of a grain of opium to one fluid drachm.

IINCTURA CANNABIS INDICÆ.

Extract of Indian	Hemp)		1 ounce.
Rectified Spirit				1 pint.
Dissolve.				

INCTURA CANTHARIDIS.

INCTURA CAPSICI.

TINCTURA CARDAMOMI COMPOSITA.

		a ounce.
		‡ ounce.
		2 ounces.
		1 ounce.
1.		55 grains.
		1 pint.
1175,]	urs, percol	

TINCTURA CASCARILLÆ.

TINCTURA CATECHU.

filter, and make up to one	pint.	-		
Macerate seven days,	strain,	pi	ess,	
Proof Spirit				1 pint.
Cinnamon Bark, bruised				1 ounce.
Catechu, in coarse powder				21 ounces.

TINCTURA CHIRATÆ.

Chiretta, cut small and	bruised		21 ounces.
Proof Spirit			· 1 pint.
Macerate forty-eight	hours,	percolate,	
press, filter, and make	up to	one pint.	

TINCTURA CHLOROFORMI COMPOSITA.

Chloroform .					2 fld. ounces.
Rectified Spirit					8 fld. ounces.
Compound Tinet	ure of	Card	lamon	as.	10 fld. ounces
Mix.					

TINCTURA	CHL	OROI	FORMI	ET	M	OR	PHINÆ.	Contains in 10 minims
Chlorof	orm						fld. ounce	
Ether							fld. drms.	
Rectifie							fld. ounce	
Hydroe	hlorat	e of	Morph	ine		8	grains	48 grs.

61	Contains in 10 minims
Diluted Hydrocyanic Acid . 1 fld. ounce . Oil of Peppermint	§ min.
Oil of Peppermint 4 minims .	so min.
Treacle 1 fld. ounce.	1‡ min.
Syrup q.s.	
Dissolve the morphine and oil in the spirit, and add the chloroform and ether. Then add the liquorice and treacle, with three ounces of syrup, mix, and add the hydrocyanic acid, and make up to eight fluid ounces with syrup.	
INCTURA CIMICIFUGÆ.	
Cimicifuga, in No. 40 powder 21	
Proof Spirit 1 p.	int.
Macerate forty-eight hours, percolate, press, filter, and make up to one pint.	
NCTURA CINCHONÆ.	
Red Cinchona Bark, in No. 40 powder . 4 or	
Proof Spirit 1 pi	int.
Macerate forty-eight hours, percolate, press, filter, and make up to one pint.	
INCTURA CINCHONÆ COMPOSITA.	
Red Cinchona Bark, No. 40 powder . 2 o	unces.
Bitter Orange Peel, bruised 1 of	unce.
Serpentary Root, bruised 1 of Saffron	unce.
Cochineal, in powder	grains.
Proof Spirit 1 p	int.
Macerate forty-eight hours, percolate, press, filter, and make up to one pint.	
NCTURA CINNAMOMI.	
Cinnamon Bark, in coarse powder . $2\frac{1}{2}$ Rectified Spirit	ounces.
Macerate forty-eight hours, percolate, press, filter, and make up to one pint.	

62	
TINCTURA COCCI.	
Cochineal, in powder Proof Spirit	2½ ounces. 1 pint.
TINCTURA COLCHICI SEMINUM.	
Colchicum Seeds, finely comminuted Proof Spirit	
TINCTURA CONII.	
Hemlock Fruit, finely comminuted. Proof Spirit	
TINCTURA CROCI.	
Saffron	1 ounce. 1 pint.
TINCTURA CUBEBÆ.	
Cubebs, in powder Rectified Spirit	21 ounces. 1 pint.
TINCTURA DIGITALIS.	
Foxglove Leaves, in No. 20 powder Proof Spirit	
TINCTURA ERGOTÆ.	
Ergot, finely comminuted Proof Spirit	5 ounces 1 pint.
Macerate forty-eight hours, percolate, press, filter, and make up to one pint.	

63	
INCTURA FERRI ACETATIS.	
Strong Solution of Acetate of Iron Acetic Acid	1 fld. ounce. 5 fld. ounces.
Mix, and add distilled water to make one pint.	
NCTURA FERRI PERCHLORIDI. Strong Solution of Perchloride of Iron Rectified Spirit Distilled Water Mix, and add distilled water to make one pint.	5 fld. ounces.
MCTURA GALLÆ. Galls, in No. 40 powder Proof Spirit	21 ounces. 1 pint.
Image: Second structure Gelsemium, in No. 40 powder. . Proof Spirit . . Macerate forty-eight hours, percolate, press, filter, and make up to one pint.	
Incrura GENTIANÆ COMPOSITA.Gentian Root, cut small and bruisedBitter Orange Peel, cut small and bruisedCardamom Seeds, bruisedProof SpiritMacerate forty-eight hours, percolate, press, filter, and make up to one pint.	11 ounces. 유 ounce. A ounce. I pint.
INCTURA GUAIACI AMMONIATA. Guaiacum Resin, in powder Aromatic Spirit of Ammonia Macerate seven days, filter, and make up to one pint.	4 ounces. q.s.

TINCTURA HAMAMELIDIS.

Hamamelis Bark, in No. 20 powder . 2 ounces. Proof Spirit q.s.

Macerate twenty-four hours, percolate to make one pint of tincture.

TINCTURA HYDRASTIS.

Hydrastis Rhizome, in No. 60 powder . 2 ounces. Proof Spirit q.s.

Macerate twenty-four hours, and percolate until one pint of tincture has been obtained.

TINCTURA HYOSCYAMI.

Henbane Leaves,	or	Flowering	Tops,	in	
No. 20 powder					21 ounce
Proof Spirit .	• .			•	1 pint.
Macerate forty-e					

TINCTURA IODI.

Iodine			1 ounce.
Iodide of Potassium			1 ounce.
Rectified Spirit .			1 pint.
Dissolvo			

TINCTURA JABORANDI.

Jaborandi, in No. Proof Spirit .	and a second		5 ounces 1 pint.
Macerate forty-e press, filter, and	eight hours,	percolate,	

TINCTURA JALAPÆ.

Jalap, in No. 40 powder Proof Spirit	:	:	:	:	21 ounces. 1 pint.
Macerate forty-eight in press, filter, and make					

38.

TINCTURA KINO.

Kino, in coarse	powde	r .			2 ounces.
Glycerine .					3 fld. ounces.
Distilled Water	1.				5 fld. ounces.
Rectified Spirit					12 fld. ounces.
Maganata gaman	dama 6	1ton	and	males	

Macerate seven days, filter, and make up to one pint.

TINCTURA KRAMERIÆ.

Rhatany Root, in No. 40 powder..

press, filter, and make up to one pint.

TINCTURA LARICIS.

Larch Bark, in No. 40 powder . . 21 ounces. Rectified Spirit 1 pint.

Macerate forty-eight hours, percolate, press, filter, and make up to one pint.

TINCTURA LAVANDULÆ COMPOSITA.

Oil of Lavender				11 fld. drms.
Oil of Rosemary				10 minims.
Cinnamon Bark, I	bruis	ed		150 grains.
Nutmeg .				150 grains.
Red Sandal-wood				300 grains.
Rectified Spirit				2 pints.

Macerate seven days, strain, press, dissolve the oils, filter, and make up to one pint.

TINCTURA LIMONIS.

Fresh Lemon Peel, cut small..</t

and make up to one pint.

TINCTURA LOBELIÆ.

TINCTURA LOBELIÆ ÆTHEREA.

Lobelia, in coarse powder . . . 2¹/₂ ounces. Spirit of Ether 1 pint. Macerate seven days, strain, press, filter, and make up to one pint.

TINCTURA LUPULI.

Нор .							21 ounces.
Proof Spirit							1 pint.
Macerate fo	orty-	eight	hou	rs, J	percol	ate,	
press, filter							

TINCTURA MYRRHÆ.

Myrrh, in coarse powder . . . 2½ ounces. Rectified Spirit 1 pint. Macerate forty-eight hours, percolate, press, filter, and make up to one pint.

TINCTURA NUCIS VOMICÆ.

TINCTURA OPII.

1 pint.

TINCTURA OPII AMMONIATA.

Opium, in powder	1 fld. drachm. 4 fld. ounces.
MINCTURA PODOPHYLLI.	
Resin of Podophyllum Rectified Spirit Dissolve and filter.	160 grains. 1 pint.
MINCTURA PYRETHRI.	
Pellitory Root, in No. 40 powder Rectified Spirit	4 ounces. 1 pint.
MINCTURA QUASSIÆ.	
Quassia Wood, in chips Proof Spirit	a ounce. 1 pint.
TINCTURA QUININÆ.	
Hydrochlorate of Quinine Tincture of Orange Peel.	160 grains. 1 pint.
LINCTURA QUININÆ AMMONIATA.	
Sulphate of Quinine Solution of Ammonia Proof Spirit	160 grains. 2½ fld. ounces. 17½ fld.ounces.

T

Rhubarb Root, in No. 20 powder 2 ounces. Cardamom Seeds, bruised 4 ounce. Coriander Fruit, bruised 4 ounce. Saffron 4 ounce. Saffron 4 ounce. Proof Spirit 1 pint. Macerate forty-eight hours, percolate, press, filter, and make up to one pint. 1 pint. TINCTURA SABINÆ . 24 ounces. Savin Tops, dried and coarsely powdered 24 ounces. Proof Spirit 1 pint. Macerate forty-eight hours, percolate, press, filter, and make up to one pint. 1 pint. Macerate forty-eight hours, percolate, press, filter, and make up to one pint. 24 ounces. Proof Spirit 1 pint. Macerate forty-eight hours, percolate, press, filter, and make up to one pint. 1 pint. Macerate forty-eight hours, percolate, press, filter, and make up to one pint. 1 pint. Macerate forty-eight hours, percolate, press, filter, and make up to one pint. 1 pint. Macerate forty-eight hours, percolate, press, filter, and make up to one pint. 1 pint. Macerate forty-eight hours, percolate, press, filter, and make up to one pint. 1 pint. Macerate forty-eight hours, percolate, press, filter, and make up to one pint. 1 pint. Macerate for	TINCTURA RHEI.	
Cardamom Seeds, bruised 1 ounce. Coriander Fruit, bruised 1 ounce. Saffron 1 pint. Macerate forty-eight hours, percolate, press, filter, and make up to one pint. 1 TINCTURA SABINE. 21 ounces. Savin Tops, dried and coarsely powdered 21 ounces. Proof Spirit 1 pint. Macerate forty-eight hours, percolate, press, filter, and make up to one pint. 1 pint. Macerate forty-eight hours, percolate, press, filter, and make up to one pint. 24 ounces. Squill, bruised 24 ounces. 1 Macerate forty-eight hours, percolate, press, filter, and make up to one pint. 1 pint. Macerate forty-eight hours, percolate, press, filter, and make up to one pint. 1 pint. Macerate forty-eight hours, percolate, press, filter, and make up to one pint. 1 pint. Macerate forty-eight hours, percolate, press, filter, and make up to one pint. 1 pint. Macerate forty-eight hours, percolate, press, filter, and make up to one pint. 1 pint. Macerate forty-eight hours, percolate, press, filter, and make up to one pint. 1 pint. <	Rhubarb Root, in No. 20 powder	2 ounces.
Coriander Fruit, bruised	Cardamom Seeds, bruised	1 ounce.
Saffron 1 pint. Macerate forty-eight hours, percolate, press, filter, and make up to one pint. I pint. . . . 1 pint. TINCTURA SABINÆ. Savin Tops, dried and coarsely powdered Proof Spirit .	Coriander Fruit, bruised	1 ounce.
Proof Spirit 1 pint. Macerate forty-eight hours, percolate, press, filter, and make up to one pint. 2½ ounces. TINCTURA SABINÆ. 2½ ounces. Savin Tops, dried and coarsely powdered Proof Spirit 2½ ounces. Proof Spirit 1 pint. Macerate forty-eight hours, percolate, press, filter, and make up to one pint. 1 pint. TINCTURA SCILLÆ. 2½ ounces. Squill, bruised 2½ ounces. Proof Spirit 1 pint. Macerate forty-eight hours, percolate, press, filter, and make up to one pint. 1 pint. Macerate forty-eight hours, percolate, press, filter, and make up to one pint. 1 pint. Macerate forty-eight hours, percolate, press, filter, and make up to one pint. 1 pint. Macerate forty-eight hours, percolate, press, filter, and make up to one pint. 1 pint. Macerate forty-eight hours, percolate, press, filter, and make up to one pint. 1 pint. Macerate forty-eight hours, percolate, press, filter, and make up to one pint. 1 pint. Macerate forty-eight hours, percolate, press, filter, and make up to one pint. 1 pint. Macerate forty-eight hours, percolate, press, filter, and make up to one pint. 1 pint. Macerate forty-eight hours, percolate, press, filter, and make up to one pint. 1 pin	Saffron	‡ ounce.
Macerate forty-eight hours, percolate, press, filter, and make up to one pint. TINCTURA SABINÆ . Savin Tops, dried and coarsely powdered Proof Spirit	Proof Spirit	1 pint.
Savin Tops, dried and coarsely powdered Proof Spirit21/2 ounces. 1 pint.Macerate forty-eight hours, percolate, press, filter, and make up to one pint.21/2 ounces. 1 pint.TINCTURA SCILLÆ. Squill, bruised21/2 ounces. 2 ounces. 1 pint.Macerate forty-eight hours, percolate, press, filter, and make up to one pint.21/2 ounces. 1 pint.Macerate forty-eight hours, percolate, press, filter, and make up to one pint.21/2 ounces. 1 pint.TINCTURA SENEGÆ. Senega Root, in No. 40 powder21/2 ounces. 1 pint.Macerate forty-eight hours, percolate, press, filter, and make up to one pint.21/2 ounces. 1 pint.TINCTURA SENNE Macerate forty-eight hours, percolate, press, filter, and make up to one pint.21/2 ounces. 1 pint.TINCTURA SENNÆ. Senma, broken small21/2 ounces. 2 ounces.	Macerate forty-eight hours, percolate,	
Proof Spirit 1 pint. Macerate forty-eight hours, percolate, press, filter, and make up to one pint. 1 pint. TINCTURA SCILLÆ . Squill, bruised 2½ ounces. Proof Spirit 1 pint. 1 pint. Macerate forty-eight hours, percolate, press, filter, and make up to one pint. 1 pint. TINCTURA SENEGÆ . 1 pint. Senega Root, in No. 40 powder 2½ ounces. Proof Spirit 1 pint. Macerate forty-eight hours, percolate, press, filter, and make up to one pint. 1 pint. Macerate forty-eight hours, percolate, press, filter, and make up to one pint. 1 pint. Macerate forty-eight hours, percolate, press, filter, and make up to one pint. 1 pint. Macerate forty-eight hours, percolate, press, filter, and make up to one pint. 1 pint. Macerate forty-eight hours, percolate, press, filter, and make up to one pint. 1 pint. Macerate forty-eight hours, percolate, press, filter, and make up to one pint. 1 pint. Macerate forty-eight hours, percolate, press, filter, and make up to one pint. 1 pint. Macerate forty-eight hours, percolate, press, filter, and make up to one pint. 1 pint. Macerate forty-eight hours, percolate, press, filter, and make up to one pint. 1 pint. Macerate f	TINCTURA SABINÆ.	
Squill, bruised1pint.Macerate forty-eight hours, percolate, press, filter, and make up to one pint1pint.TINCTURA SENEGÆ.Senega Root, in No. 40 powderMacerate forty-eight hours, percolate, press, filter, and make up to one pint	Proof Spirit	
Squill, bruised1pint.Macerate forty-eight hours, percolate, press, filter, and make up to one pint1pint.TINCTURA SENEGÆ.Senega Root, in No. 40 powderMacerate forty-eight hours, percolate, press, filter, and make up to one pint	TINCTURA SCILLÆ.	
Senega Root, in No. 40 powder 21 ounces. Proof Spirit 1 pint. Macerate forty-eight hours, percolate, press, filter, and make up to one pint. 1 pint. TINCTURA SENNÆ . 21 ounces. Senna, broken small 21 ounces. Raisins, freed from seeds 2 ounces. Caraway Fruit, bruised 1 pintes.	Squill, bruised	2½ ounces. 1 pint.
Macerate forty-eight hours, percolate, press, filter, and make up to one pint. 1 pint. TINCTURA SENNÆ . Senna, broken small	TINCTURA SENEGÆ.	
Senna, broken small<	Macerate forty-eight hours, percolate,	21 ounces. 1 pint.
Raisins, freed from seeds2 ounces.Caraway Fruit, bruised1 ounce.Coriander Fruit, bruised1 ounce.	TINCTURA SENNÆ.	
Raisins, freed from seeds2 ounces.Caraway Fruit, bruised1 ounce.Coriander Fruit, bruised1 ounce.	Senna, broken small	21 ounces.
Caraway Fruit, bruised 1 ounce. Coriander Fruit, bruised		
Coriander Fruit, bruised 1 ounce.		1 ounce.
		1 ounce.
	Proof Spirit	1 pint.

Macerate forty-eight hours, percolate, press, filter, and make up to one pint.

TINCTURA SERPENTARIÆ.

Serpentary Rhizome, in No. 40 powder . 21 ounces. Proof Spirit . 1 pint. . . . Macerate forty-eight hours, percolate, press, filter, and make up to one pint.

TINCTURA STRAMONII.

Stramonium Seeds, bruised . . . 21 ounces. 1 pint. Proof Spirit Macerate forty-eight hours, percolate, press, filter, and make up to one pint.

TINCTURA STROPHANTHI.

Strophanthus, in No. 30 powder, and dried at 110° F. . . . Pure Ether Rectified Spirit } of each q.s.

Pack in a percolator, and moisten with ether. Macerate twenty-four hours, then allow percolation to go on until the fluid passes through colourless. Dry the marc, powder it, pack in percolator, moisten with spirit, and macerate fortyeight hours. Then percolate until halfa-pint of tincture is obtained. Dilute with rectified spirit to one pint.

TINCTURA SUMBUL.

Sumbul Root, in No. 40 powder . . $2\frac{1}{2}$ ounces Rectified Spirit . 1 pint. . . . Macerate forty-eight hours, percolate, press, filter, and make up to one pint.

TINCTURA TOLUTANA.

Balsam of Tolu . 21 ounces. Rectified Spirit . q.s. Macerate six hours, then filter, and make up to one pint.

TINCTURA VALERIANÆ.

Valerian Rhizome, in No. 40 powder . 21 ounces. Proof Spirit . · · · · · · 1 pint. Macerate forty-eight hours, percolate, press, filter, and make up to one pint.

1 ounce.

TINCTURA VALERIANÆ AM	MONI	ATA.		
Valerian Rhizome, in No. 40	powe	ler		$2\frac{1}{2}$ ounces.
Aromatic Spirit of Ammonia				1 pint.
Macerate seven days, strain, and make up to one pint.	press	s, filte	er,	
TINCTURA VERATRI VIRIDI	S.			
Green Hellebore Rhizome, N	To. 40	powd	ler	4 ounces.
Rectified Spirit		*		1 pint.
Macerate forty-eight hour press, filter, and make up t				
TINCTURA ZINGIBERIS.				
Ginger, in powder				21 ounces.
Rectified Spirit				1 pint.
Macerate forty-eight hour	rs, pe	rcolat	te,	
press, filter, and make up t	o one	pint.		
TINCTURA ZINGIBERIS FOR	TIOR			
Ginger, in fine powder .				10 ounces.
Rectified Spirit				
Percolate until one pint of				
been collected.				
TROCHISCI ACIDI BENZOICI.				
Benzoic Acid				360 grains.
Refined Sugar, in powder				25 ounces.
Gum Acacia, in powder .				1 ounce.
Mucilage Gum Acacia .				2 fld. ounces.
Distilled Water				q.s.
Divide into 720 lozenges, co		ing h	alf	
a grain of benzoic acid in e	ach.			
TROCHISCI ACIDI TANNICI.				
Tannic Acid				360 grains.
Tincture of Tolu Refined Sugar, in powder				1/2 fld. ounce.
Refined Sugar, in powder				25 ounces.
Gum Acacia, in powder . Mucilage of Acacia.			•	1 ounce.
Mucilage of Acacia.			•	2 fld. ounces.
Distilled Water				1 fld. ounce.
Divide into 720 lozenges, co a grain of tannic acid in ea	ntain ch.	ing h	alf	

TROCHISCI BISMUTHI.

Subnitrate of Bismuth			1,440 grains.
Carbonate of Magnesia			4 ounces.
Precipitated Carbonate of Calci	ium.		6 ounces.
Refined Sugar			29 ounces.
			1 ounce.
Mucilage of Gum Acacia			2 fld. ounces.
Rose Water	A. Starting		q.s.
Divide into 720 lozenges cont	aining t	wo	

grains of subnitrate of bismuth in each.

TROCHISCI CATECHU.

Catechu, in powder .				720 grains.
Refined Sugar, in powder				25 ounces.
Gum Acacia, in powder .				1 ounce.
Mucilage of Gum Acacia				2 fld. ounces.
Distilled Water				q.s.
Divide into 720 lozenges,	contai	ning o	one	

grain of catechu in each.

TROCHISCI FERRI REDACTI.

Reduced Iron			720 grains.
Refined Sugar, in powder			25 ounces.
Gum Acacia, in powder .		Bull -	1 ounce.
Mucilage of Acacia.			2 fld. ounces.
Distilled Water			ounce, or q.s.
Divide into 720 lozenges, o			
grain of reduced iron in e	-		

TROCHISCI IPECACUANHÆ.

Ipecacuanha, in powder .			180 grains.
Refined Sugar, in powder			25 ounces.
Gum Acacia, in powder .		-	1 ounce.
Mucilage of Gum Acacia			2 fld. ounces.
Distilled Water			ounce, or q.s.
Divide into 720 lozenges, o		one	

quarter of a grain of ipecacuanha in each.

TROCHISCI MORPHINÆ.

Hydrochlorate of Morphine . . . 20 grains.

Tincture of Tolu				1 fld. ounce.
Refined Sugar, in powder				24 ounces.
~				1 ounce.
Mucilage of Gum Acacia				q.s.
Distilled Water				1 fld. ounce.
Divide into 720 lozenges,	contain	ing (one	

thirty-sixth of a grain of morphine hydrochlorate in each.

TROCHISCI MORPHINÆ ET IPECACUANHÆ.

Hydrochlorate of Morphine				20 grains.
Ipecacuanha, in fine powder				
Tincture of Tolu				1/2 fld. ounce.
Refined Sugar, in powder				24 ounces.
				1 ounce.
				q.s.
Distilled Water				1/2 fld. ounce.
Divide into 720 lozenges, con	ntair	ning (one	
thirty-sixth of a grain of	of n	norph	ine	

TROCHISCI OPII.

Extract of Opium				72 grains.
Tincture of Tolu				1 fld. ounce.
Refined Sugar, in powder				16 ounces.
Gum Acacia, in powder .				2 ounces.
Extract of Liquorice .				6 ounces.
Distilled Water				q.s.
Divide into 720 lozenges.	contair	ning o	me-	

tenth of a grain of extract of opium, or one-fiftieth of a grain of morphine in each.

hydrochlorate and one-twelfth of a grain

TROCHISCI POTASSII CHLORATIS.

of ipecacuanha in each.

Chlorate of Potassium, in	powder .		3,600 grains.
Refined Sugar, in powder			25 ounces.
Gum Acacia, in powder .			1 ounce.
Mucilage of Gum Acacia			2 fld, ounces.
Distilled Water		1 fld	l. ounce, or q.s.
Divide into 720 lozenges.	containing	five	

Divide into 720 lozenges, containing five grains of potassium chlorate in each.

TROCHISCI SANTONINI.

Santonin				720 grains.
Refined Sugar, in powder				25 ounces.
Gum Acacia, in powder .				1 ounce.
Mucilage of Gum Acacia				2 fld. ounces.
Distilled Water				q.s.
Divide into 720 lozenges,	contair	ning	one	

grain of santonin in each.

ROCHISCI SODII BICARBONATIS.

Bicarbonate of Sodium, in	powder	r .	3,600 grains.
Refined Sugar, in powder			25 ounces.
Gum Acacia, in powder .			1 ounce.
Mucilage of Gum Acacia			2 fld. ounces.
Distilled Water			1 fld. ounce.
Divide into 720 lozenges, o grains of sodium bicarbons			

ROCHISCI SULPHURIS.

Precipitated Sulphur .				3,600 grains.
Acid Tartrate of Potassium	1 .			720 grains.
Refined Sugar, in powder				5,760 grains.
Gum Acacia, in powder .				720 grains.
Tincture of Orange Peel .				720 minims.
Mucilage of Acacia .				720 minims
Divide into 720 lozenges,	contain	ing	five	

grains of sulphur in each.

INGUENTUM ACIDI BORICI.

Borie Acid, in fine	e pov	vder		1 part.
Soft Paraffin .				4 parts.
Hard Paraffin				2 parts.
(1-7.)				

INGUENTUM ACIDI CARBOLICI.

Carbolic Acid			1 part.
Soft Paraffin .			12 parts.
Hard Paraffin			6 parts.
(1-19.)			

and a second sec		_				
UNGUENTUM ACID		Contraction of the local				
Salicylic Acid Soft Paraffin .		•	•	•		1 part.
Hand Daraffin	•	•	•		•	18 parts.
Hard Paraffin		•	•	*	•	9 parts.
(1-28.)						
UNGUENTUM ACON	ITIN	Æ.				
Aconitine .						8 grains.
Rectified Spirit						1 fld. drachm
Rectified Spirit Benzoated Lard						Ĩ ounce.
UNGUENTUM ANT	MON	пт	ARTA	RAT	T.	
Tartarated Antin						1 part.
Simple Ointment						
and the second sec						- Larres
UNGUENTUM ATR						
Atropine . Rectified Spirit Benzoated Lard				•		8 grains.
Rectified Spirit		•				1 fld. drachm
Benzoated Lard	•	•		•		1 ounce.
UNGUENTUM BELL	ADO	NNÆ				
Alcoholic Extract						1 part.
Benzoated Lard						
						- Imm
UNGUENTUM CALA						
Prepared Calamin	ne.					1 part.
Benzoated Lard	•	•	•	•	•	5 parts.
UNGUENTUM CANT	THAR	IDIS				
						Inort
Cantharides Yellow Wax of	each			•	•	1 part.
Olive Oil .						6 fld. parts.
ouro ou .				11	from	
Infuse the cant	haride	es in	the	011	IOL	
Infuse the cant						
	hen 1	olace	the v	ressel	in	
Infuse the cant twelve hours, t	then por fifte	olace een n	the minute	ressel s, str	in ain	
Infuse the cant twelve hours, t boiling water for	then por fifte	olace een n	the minute	ressel s, str	in ain	
Infuse the cant twelve hours, t boiling water for through muslin viously melted.	then por fifte , and	olace een n	the minute	ressel s, str	in ain	
Infuse the cant twelve hours, t boiling water for through muslin viously melted.	then por fifte , and ACEI.	olace een n add	the winute the w	zessel s, str zax,]	in ain ore-	5 omness
Infuse the cant twelve hours, t boiling water for through muslin viously melted.	then pr fifte , and ACEI.	add	the winute the w	vessel s, str vax,]	in ain ore-	5 ounces. 2 ounces.

	75				
Almond Oil		-			1 pint.
Benzoin, in coarse powe					
MONDY AND YOADA	DINI				
INGUENTUM CHRYSARO					1 mont
Chrysarobin Benzoated Lard .			•	•	1 part. 24 parts.
(1-25.)					24 parts.
(1-20.)					
INGUENTUM CONII.					
					2 fld. ounces.
Hydrous Wool Fat.		•			³ / ₄ ounce.
Boric Acid, in powder		: .	•	•	10 grains.
Evaporate the juice to	two	drach	ms, a	it	
temperature not exceed the acid and wool fat.	ling .	140 1	.; ad	a	
the actu and woor fat.					
INGUENTUM CREASOTI.					
Creasote					1 part.
Simple Ointment .			•		8 parts.
(1—9.)					
NGUENTUM ELEMI.					
Elemi					1 part.
Simple Ointment .					4 parts.
(1-5.)					
NGUENTUM EUCALYPT	State of the second				
Oil of Eucalyptus, by w Soft Paraffin		•	•	•	1 part.
Hard Paraffin } of each					2 parts.
(1-5.)					
					1
GUENTUM GALLÆ.					Sector Contraction
Galls, in fine powder Benzoated Lard .					80 grains.
Benzoated Lard .		the set			1 ounce.
GUENTUM GALLÆ CU	IM O	PIO			
Ointment of Galls .					1 ounce
Opium, in powder .					
1 . T. and the state of the sta		Se anne			British
the second second second second second second second					

UNGUENTUM GLYCERINI PLUMBI SU	BAC	ETATIS.
Glycerine of Subacetate of Lead .		
Soft Paraffin		18 ounces.
Hard Paraffin		6 ounces.
UNGUENTUM HAMAMELIDIS.		
Liquid Extract of Hamamelis		1 fld. part.
Simple Ointment		9 parts.
UNGUENTUM HYDRARGYRI.		
Mercury] fresh		1
$\left. \begin{array}{c} \text{Mercury} \\ \text{Prepared Lard} \end{array} \right\} \text{ of each } \cdot \cdot \cdot$	•	1 pound.
Prepared Suet		1 ounce.
UNGUENTUM HYDRARGYRI AMMONIA	TI.	
Ammoniated Mercury		1 part.
Simple Ointment		9 parts.
UNGUENTUM HYDRARGYRI COMPOSIT	TUM	
Ointment of Mercury		6 parts.
$\left. \begin{array}{c} Yellow Wax \\ Olive Oil \end{array} \right\} of each . \qquad .$		3 parts.
Camphor		1½ parts.
UNGUENTUM HYDRARGYRI IODIDI R	UBR	I.
Red Iodide of Mercury, in fine powder		16 grains.
Simple Ointment		1 ounce.
UNGUENTUM HYDRARGYRI NITRATIS		
Mercury, by weight		4 ounces.
Nitric Acid		12 fld. ounces.
Prepared Lard		15 ounces.
Olive Oil		32 fld. ounces.
Dissolve the mercury in the acid with	a	
little heat, melt the lard in the oil, an		
while the mixture is at 212° F., ad		
the solution of mercury, and mix wel		
If it does not froth up, increase the hea Stir till cold.	t.	
UNGUENTUM HYDRARGYRI NITRATIS	DI	LUTUM.
Nitrate of Mercury Ointment.		1 part.
Soft Paraffin		2 parts.

			77				
NGUENTUM	HYDR	ARG	YRI	OXII	DI R	UBR	1.
Red Oxide Hard Parafi Soft Paraffi	fin						1 ounce.
NGUENTUM	HYDR	ARG	VRI	SUR	HLO	RID	T
Subchloride Benzoated I	e of Mer	cury					80 grains.
NGUENTUM	IODI.						
Iodine . Iodide of Po Glycerine Prepared L	otassîur	n •	:	:		:	1 fld. drachm.
NIGUENTUM	IODOF	ORM	I.				
Iodoform Benzoated 1	Lard	•	:	•	:	•	1 ounce. 9 ounces.
NGUENTUM		-					
Tar Yellow Wax	x :	•	•	:	:	•	5 ounces. 2 ounces.
NGUENTUM	PLUM	BI A	CET	ATIS.			
Acetate of I Benzoated I	Lead, in Lard	pow.	der •	:		•	12 grains. 1 ounce.
GUENTUM	PLUMI	BI C.	ARB	ONAT	IS.		
Carbonate o Simple Oint	f Lead, tment	in po	owden •	r.	:	:	62 grains. 1 ounce.
GUENTUM	PLUMI	BI IC	DID	I.			
Iodide of Le Simple Oint	ead, in j tment	powd	er •	•	:	:	62 grains. 1 ounce.
GUENTUM	POTAS	SÆ 1	SULP	HUR	ATÆ.	Setti -	
Sulphurated Hard Paraff Soft Paraffin	l Potasl in 1 .	1	•		:	•	30 grains. 4 ounce. 4 ounce.

UNGUENTUM POTASSII I	ODI	DI.		A
Iodide of Potassium				64 grains.
Carbonate of Potassium				4 grains.
Water				1 fid. drachm.
Benzoated Lard .				1 ounce.
UNGUENTUM RESINÆ.				
Resin, in coarse powder				4 parts.
Yellow Wax				2 parts.
Simple Ointment .				8 parts.
Almond Oil				1 fld. part.
UNGUENTUM SABINÆ.				
Fresh Savin Tops, bruise	be			8 ounces.
Yellow Wax				
Benzoated Lard .				16 ounces.
Melt the lard and wa				
Express through calico. UNGUENTUM SIMPLEX.				
White Wax				2 ounces.
Benzoated Lard .				
Almond Oil				3 fld. ounces.
UNGUENTUM STAPHISAG	RIÆ			
Stavesacre Seeds, crushe	-			1 part.
Benzoated Lard .				2 parts.
Macerate the seeds in the				a Para and
two hours, and strain. 10 per cent. of oil of sta	Co	ntains		
UNGUENTUM SULPHURIS	5.			
Sublimed Sulphur .				1 ounce.
Benzoated Lard .				4 ounces.
UNGUENTUM SULPHURIS	101	DIDI.		
Iodide of Sulphur .				30 grains.
Hard Paraffin .				‡ ounce.
Soft Paraffin				a ounce.

GUENTUM TEREBINTHINÆ.

	Oil of Turpentine						8 fld. parts.
	Resin, in powder						1 part.
	Yellow Wax .						4 parts.
	Prepared Lard	•		•			4 parts.
6	GUENTUM VERA	TR	INÆ.				
	Veratrine .						8 grains.
	Hard Paraffin						1 ounce.
	Soft Paraffin .				-		a ounce.
	Olive Oil .						1 fld. drachm.
-	GUENTUM ZINCI						
							80 grains.
	Oxide of Zinc Benzoated Lard	•			18.1.1	1.3	1 ounce.
	Denzoated Dard			·			i builde.
6	GUENTUM ZINCI	0	LEATI.				
	Oleate of Zinc						1 part.
	Soft Paraffin .	•					1 part.
	POR ACIDI HYDR	200	YANIC	I.			
ł	Diluted Hydrocyan						10 to 15 mins.
	Water, cold .						
I							
	POR CHLORI.						
l	Chlorinated Lime						2 ounces.
			•	•		•	q.s.
	POR CONINÆ.						
10000	Juice of Hemlock						1 fld. ounce.
1	Juice of Hemlock Solution of Potash		3				1 fld. drachm.
	Distilled Water						1 fld. ounce.
	POR CREASOTI.						
	Creasote				2		12 minims.
	Boiling Water						
	POR IODI.						
							1 44 7 1
	Tincture of Iodine	3					1 nd. drachm.
	Water		all a state		S		1 na. ounce.

	Wool O	il.	in					40 minims
Lig	nt Carbo	onate o	of Ma	gnesi	a.			20 grains.
wa	ter .	•	•	•	q.s. 1	to pro	auce	1 fid. ounc
VINUM								
Soco	damom s	loes Seeds,	freed	fron	ŋ.	•	•	1 ¹ / ₂ ounce.
Gin	ger, in c	oarse	powd	er	} or o	each	•	0
	rry .							2 pints.
	two pint		iys, n	Iter,	and r	nake	up	
VINUM	ANTIN	IONI	ALE.					
Tart	arated A	Antim	ony					40 grains.
		•		•		•		1 pint.
Diss	solve.							
VINUM	COLCH	ICI.						
Cole	hicum C	orm, s	sliced,	drie	d, and	bruis	ed	4 ounces.
Sher	ту.							1 pint.
VINUM	FERR	Γ.						
			bout	No.	35)			1 ounce.
	rry .							
	erate th							
VINUM	FERRI	CIT	RATI	S.				
					a.	1		160 grains.
	nge Win							1 pint.
Diss	olve, all er.	low to	rema	in th	ree da	ys, ar	nd	
filt	IPECA	CUAN	HÆ.					
								1 ounce.
VINUM		\cdot III D						1 ounce.
VINUM Ipec Acet	acuanha ic Acid							
VINUM Ipec Acet Dist	acuanha tic Acid illed Wa	iter						q.s.
VINUM Ipec Acet Dist Sher	acuanha ic Acid	ater	:	:	:	:	:	q.s. 1 pint.

twenty-four hours. Transfer to a percolator, and pass sufficient distilled water through to produce one pint of liquor. Evaporate the product to dryness over a water-bath. Powder the residue, and macerate it in the sherry for forty-eight hours, with occasional agitation, then filter.

INUM OPII.

Extract of Opium, bruised	1 ounce.
Cinnamon Bark, bruised } of each	75 grains.
Sherry	
Macerate seven days, and filter. Contains nearly twenty-two grains of extract of	
opium in one fluid ounce.	

INUM QUININÆ.

Sulphate of Quinine					20 grains.
Citric Acid			10 - 10	1	30 grains.
Orange Wine			·		1 pint.
Dissolve the acid	first.	and	then	the	
quinine, in the win	e. St	and t	hree o	lavs.	
and filter				203	

NUM RHEI.

Rhubarb R	oot, in	coa	rse por	wder		11 ounces.
Canella All	ba Barl	ζ.				60 grains.
Sherry .						1 pint.

Macerate seven days, then strain, press, filter, and make up to one pint.

POSOLOGICAL TABLE AND DOSES

OF THE

BRITISH PHARMACOPCEIA.

Acetum	÷ · .						Ji to Ji.
Acetum	Ipecacuan	hæ					5 to 40 mins.
	Scillæ						15 to 40 mins.
Acetanil	lidum .						3 to 10 grains.
Acidum	Aceticum	Dilu	tum				Ji to Zi.
,,	Arseniosu						1 to 1 grain.
	Boricum						5 to 30 grains.
,,	Carbolicun						1 to 3 grains.
,,		Lig	uidun	1			1 to 4 mins.
,,	Citricum						10 to 30 grains.
,,	Gallicum						2 to 10 grains.
,,	Hydrobron	nicun	n Dilu	itum			
	Hydrochlo						10 to 30 mins.
33	Hydrocyan						2 to 8 mins.
"	Lacticum						
"	Nitricum 1						10 to 30 mins.
,,	Nitro-Mur						5 to 20 mins.
"	Phosphorie		and the second se				2 to 5 mins.
"	,,						10 to 30 mins.
33	Salicylicu						5 to 30 grains.
,,	Sulphurica						5 to 30 mins.
,,	,,	T	ilutur	n			5 to 30 mins.
,,	Sulphuros	um L	mutu	**	•	•	1 to 1 drachm.
,,	Sulphuros	um			•	•	2 to 10 grains.
"	Tartaricun				•		10 to 30 grains.
Æther						1	20 to 60 mins.
resenter			1. A. A.		•		20 to 00 minus.

1						Sector States and States
	Ether Aceticus .					20 to 60 mins.
	Aloe Barbadensis .					2 to 6 grains.
ł	" Socotrina .					2 to 6 grains.
	Aloin					$\frac{1}{2}$ to 2 grains.
	Alumen					10 to 20 grains.
	ummoniacum.					10 to 20 grains.
	mmonii Benzoas					10 to 20 grains.
į	", Bromidum	100			1	2 to 20 grains.
ł	", Carbonas		-			3 to 10 grains.
	", Chloridum			-	-	5 to 20 grains.
	", Phosphas					5 to 20 grains.
	", Thosphas	tion				2 to 5 mins.
	amyl Nitris (by inhala	NOIL)	•			
	", " (by mouth)	17.		•	$\frac{1}{2}$ to 1 min.
	antimonii Oxidum.					1 to 4 grains.
	untimonium Sulphurat	um	÷.		;	1 to 5 grains.
	,, Tartaratur	n (as	a diaj	phore	tic)	1 to 1 grain.
	32 33	(as	an er	metic) •	1 to 2 grains.
						1 to 2 ounces.
	,, Chloroformi .					$\frac{1}{2}$ to 2 ounces.
	,, Laurocerasi .					$\frac{1}{2}$ to 2 drachms.
	Argenti Nitras .					1 to 1 grain.
	,, Oxidum .					1 to 2 grains.
	Arsenii Iodidum .					1 grain.
	Assafcetida					5 to 20 grains.
	Balsamum Peruvianum					10 to 15 mins.
	,, Tolutanum					10 to 20 mins.
						7 4. 70
	Bismuthi Carbonas					5 to 20 grains.
	,, Citras .					2 to 5 grains.
	,, et Ammonii	Citra	atis	10181	12.14	2 to 5 grains.
	, Oxidum .			1000	Charles .	5 to 15 grains.
	Subnitrae	-				5 to 20 grains.
	jutyl-Chloral Hydras		1.1.1			5 to 15 grains.
	affeina.				all and	1 to 5 grains.
	affeinæ Citras			1		
	and the second	itata				2 to 10 grains.
	Palcii Carbonas Præcipi	reated		•		10 to 60 grains.
	,, Chloridum .				a start	3 to 10 grains.
	,, Hypophosphis				•	5 to 10 grains.
	,, Phosphas .					10 to 20 grains.
	alumbæ Kadix .					5 to 20 grains.
	alx Sulphurata .					10 to 1 grain.
	pambogia				•	1 to 4 grains.
	A REAL PROPERTY AND A REAL					

Camphora					1 to 10 grains.
Carbo Ligni					20 to 60 grains.
Catechu					10 to 30 grains.
Cerevisiæ Fermentum					
Cerii Oxalas					1 to 2 grains.
Chloral Hydras .					5 to 30 grains.
Chloroformum .					3 to 10 mins.
Chrysarobinum .			100		1 to 1 grain.
Cinchonidinæ Sulpha					1 to 10 grains.
Cinchoninæ Sulphas					1 to 10 grains.
Coca			100		1 to 2 drachms.
Cocainæ Hydrochloras	s .				to 1 grain.
Codeina					1 to 2 grains.
Colchici Cormus (puly	.).				2 to 8 grains.
Colocynthidis Pulpa	.,.				2 to 8 grains.
Confectio Opii .				•	5 to 20 grains.
					60 to 190 grains.
,, Piperis . ,, Scammonii					60 to 120 grains.
Common			•	•	10 to 30 grains.
				•	60 to 120 grains.
", Sulphuris				•	60 to 120 grains.
". Terebinthin		•			60 to 120 grains.
Conii Folia (pulv.)	•			•	2 to 8 grains.
Copaiba				•	1 to 1 fld. drm.
Copaibæ Oleum .				•	5 to 20 mins.
Coriandri Fructus .				•	10 to 30 grains.
					30 to 60 grains.
Creasotum					1 to 3 mins.
Creta Præparata .					10 to 60 grains.
Crocus Cubeba (pulv.) .					20grs. and upwards.
Cubeba (pulv.) .					30 to 120 grains.
Cubebæ Oleum .					5 to 20 mins.
Cupri Sulphas (as an a	stringe	ent (or tonic	c).	1 to 2 grains.
,, ,, (as an e					5 to 10 grains.
Cusparia (pulv.) .					10 to 40 grains.
Cusso					1 to 1 oz.
Decoctum Aloes Com	positun	n			1 to 2 fld. ozs.
,, Sarsæ Comp	ositum				2 to 10 fld. ozs.
Companii					2 to 4 fld. ozs.
The wards of					2 to 4 fld. ozs.
IIImi					2 to 4 fld. ozs.
Decocta not enumerate			given	in	- to a nur onor
				***	1 to 2 fld. ozs.
doses from		•			1 10 2 110, 025,

Distitution				1 to 1 main
Digitalinum .			-	to to so grain.
Digitalis Folia				1 to 11 grains.
Elaterium .	'IT IN			18 to 1 grain.
Ergota (the powde	ered Ergot)	• •	1	20 to 30 grains.
Essentia Anisi				10 to 20 mins.
Essentia Menthæ	and the second second second second second second second	•		10 to 20 mins.
Extractum Aconit				1 to 2 grains.
,, Aloes I	Barbadensis			2 to 6 grains.
,, Aloes S	Socotrinæ			2 to 6 grains.
	nidis .			2 to 10 grains.
	iquidum			1 to 2 fld. drms.
,, Bellado	onnæ .		-	‡ to 1 grain.
,, Calumb	. 90			2 to 10 grains.
	ois Indicæ		1	1 to 1 grain.
	næ Flavæ I	Liquidum		10 to 30 mins.
Colchie			1.	1 to 2 grains.
Colchic	i Aceticum		1.0	1 to 2 grains.
Colocy	nthidis Con			3 to 10 grains.
Conii		-		2 to 6 grains.
	Liquidum			10 to 30 mins.
	Liquidum			15 to 30 mins.
,, Gentiar	næ .			2 to 10 grains.
Glyeve	hizæ .		Salla -	10 to 30 grains.
	hizæ Liqui			60 to 120 mins.
	oxyli .			10 to 30 grains.
Hyosey				5 to 10 grains.
Jalanm				5 to 15 grains.
Kramer				5 to 20 grains.
Lactuce				
Luppli				5 to 15 grains.
Nucie I	Vomicæ			5 to 15 grains.
Onii	····			1 to 2 grains.
Onii Li	quidum			$\frac{1}{2}$ to 2 grains. 10 to 40 mins.
,, Papave				
,, Pareira				2 to 5 grains.
	Liquidum			10 to 20 grains.
,, I dicitat	tiomatic			1 to 2 fld. drms.
Ongegio	tigmatis	1. C. S. S. S.		1 to 1 grain.
,, Quassia ,, Rhei	•			3 to 5 grains.
	Liquidium			5 to 15 grains.
,, Stramo	Liquidum	State State	and the	2 to 4 fld. drms.
AND A REAL PROPERTY OF A	and the second se		-	to 1 grain.
,, Luonyi	mi Siccum	Long and		1 to 4 grains.

Extractum Hamamelis Liquidun	n.		2 to 5 mins.
,, Hydrastis Liquidum			5 to 30 mins.
,, Taraxaci			
Fel Bovinum			5 to 10 grains.
Ferri Arsenias			1 to 1 grain.
,, Carbonas Saccharata .			5 to 20 grains.
1 1 1 011			5 to 10 grains.
,, et Quininæ Citras.			5 to 10 grains.
" Iodidum			1 to 5 grains.
", Oxidum Magneticum .			5 to 10 grains.
", Perchloridum Liquidum			3 to 10 mins.
" Pernitratis Liquidum .			30 to 60 mins.
" Peroxidum			10 to 60 grains.
Panaridum Unmidum			1 to 1 oz.
Hydrotum			5 to 30 grains.
Phomphas			5 to 10 grains.
Gulphan			1 to 5 grains.
Funicanto			
Committee			1 to 3 grains.
Ferrum Redactum			1 to 5 grains.
		•	1 to 5 grains.
Filing (puly red)			5 to 10 grains.
Filix (pulv. rad.)			60 to 120 grains.
Galbanum			10 to 30 grains.
Gentianæ (pulv.)			
			1 to 2 fld. drms.
Guaiaci Resina	•	•	10 to 30 grains.
Hydrargyri Iodidum Rubrum	•		15 to 1 grain.
" Viride .	•		1 to 3 grains.
", Perchloridum .			
,, Subchloridum .			1 to 5 grains.
Hydrargyrum cum Cretâ .			3 to 8 grains.
,, Sulphureti (for fu	ımigati	ion)	30 grains and up- wards.
Homatropinæ Hydrobromas .			1 to 1 grain.
Infusa. Those not enumerated			00 200
given in doses from			1 to 2 fld. ozs.
Infusum Anthemidis			1 to 4 fld. ozs.
Buchu			1 to 4 fld. ozs.
,, Duchu			1 to 4 fld. ozs.
,, Caryophylli ,, Cusso	10 200		4 to 8 fld. ozs.
", Digitalis			2 to 4 fld. drms.
Inula (pulv.)		No.	30 to 60 grains.
			ov to ov Summer

Iodum .

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Ipecacuanha (pulv.), (as emetic)15 to 30 grains.Jalapa (powder)4 to 2 grains.Jalapa Resina2 to 5 grains.Kamala2 to 5 grains.Lactucarium20 to 60 grains.Liquor Ammonize10 to 30 mins.Jujor Ammonize10 to 30 mins.Jalapa (powder)2 to 6 fld. drms.Jujor Ammonize2 to 6 fld. drms.Jujor Arsenicalis2 to 8 mins.Jujor Arsenicalis2 to 8 mins.Jujor Arsenici Hydrochloricus2 to 8 mins.Jujor Arsenici Hydrochloricus2 to 8 mins.Jujor Arsenici Hydrochloricus10 to 20 mins.Jujor Arsenici Hydrochloricus								increased.
Jalapa (powder) 4 to 2 grains.Jalapa (powder) 10 to 30 grains.Jalapa (powder) 20 to 5 grains.Kamala 30 grains to $\frac{1}{7}$ oz.Kino (in powder) 20 to 50 grains.Krameria (in powder) 20 to 60 grains.Lactucarium 10 to 30 grains.Liquor Ammonia 10 to 30 grains. 10 to 30 grains. 10 to 30 grains.Liquor Ammonia 10 to 30 grains. 10 to 30 mins. 10 to 30 grains. 10 to 30 mins. 10 to 30 mins. 10 to 30 mins. 10 to 4 fld. drm. 10 calcis Saccharatus 10 to 20 mins. 10 ferri Perchloridi 10 to 40 mins. 10 floit 10 to 30 mins. 10 floit 10 to 20 mins. 10 floit 10 to 60 mins. 10 floit 10 to 60 mins. 10 flo	Ipecacua	nha (puly	7.), (a	s eme	tic)			15 to 30 grains.
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Magnesiæ Carbonatis.1 to 2 fld. ozs.,, Citratis5 to 10 fld. ozs.,, Morphinæ Acetatis10 to 60 mins.,, Cocainæ Hydrochloratis2 to 10 mins.,, Morphinæ Sulphas10 to 60 mins.,, Morphinæ Hydrochloratis10 to 60 mins.,, Morphinæ Hydrochloratis10 to 60 mins.,, Potassæ5 to 10 fld. ozs.,, Potassæ Effervescens5 to 10 fld. ozs.,, Potassæ Permanganatis2 to 4 fld. drms.,, Sodæ5 to 10 mins.,, Sodæ Chloratæ10 to 20 mins.,, Sodæ Effervescens10 to 20 mins.,, Sodæ Effervescens5 to 10 fld. ozs.						•		
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,,Morphinæ Acetatis10 to 60 mins.,,Cocainæ Hydrochloratis2 to 10 mins.,,Morphinæ Sulphas10 to 60 mins.,,Morphinæ Hydrochloratis10 to 60 mins.,,Potassæ,,Potassæ,,Potassæ,,Potassæ Effervescens,,Potassæ Permanganatis,,Sodæ,,Sodæ,,Sodæ Arseniatis,,Sodæ Chloratæ10 to 20 mins.,,Sodæ Effervescens5 to 10 fld. ozs.		magnesia						
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,,Morphinæ Sulphas10 to 60 mins.,,Morphinæ Hydrochloratis.10 to 60 mins.,,Potassæ,,Potassæ Effervescens,,Potassæ Permanganatis,,Sodæ,,Sodæ,,Sodæ,,Sodæ,,Sodæ,,Sodæ,,Sodæ Arseniatis,,Sodæ Chloratæ,,Sodæ Effervescens,,Sodæ Effervescens					atia	•		
,,Morphinæ Hydrochloratis.10 to 60 mins.,,Potassæ15 to 60 mins.,,Potassæ Effervescens5 to 10 fld. ozs.,,Potassæ Permanganatis2 to 4 fld. drms.,,Sodæ,Sodæ,Sodæ,Sodæ,Sodæ,Sodæ Arseniatis,Sodæ Chloratæ10 to 20 mins.,Sodæ Effervescens5 to 10 fld. ozs.					aus		•	
,,Potassæ15 to 60 mins.,,Potassæ Effervescens5 to 10 fld. ozs.,,Potassæ Permanganatis2 to 4 fld. drms.,,Sodæ,,Sodæ,,Sodæ,,Sodæ,,Sodæ Arseniatis5 to 10 mins.,,Sodæ Chloratæ10 to 20 mins.,,Sodæ Effervescens5 to 10 fld. ozs.					avatia		•	
,, Potassæ Effervescens5 to 10 fld. ozs.,, Potassæ Permanganatis2 to 4 fld. drms.,, Sodæ,, Sodæ Arseniatis,, Sodæ Chloratæ,, Sodæ Effervescens5 to 10 mins.	"	States of the second se					•	
,, Potassæ Permanganatis.2 to 4 fld. drms.,, Sodæ,, Sodæ Arseniatis,, Sodæ Chloratæ,, Sodæ Effervescens, Sodæ Effervescens	23							
,, Sodæ . . . 10 mins. to 1 fld.drm. ,, Sodæ Arseniatis . . . 5 to 10 mins. ,, Sodæ Chloratæ . . . 10 to 20 mins. ,, Sodæ Effervescens . . . 5 to 10 fld. ozs.						•	•	
,,Sodæ Arseniatis5 to 10 mins.,,Sodæ Chloratæ10 to 20 mins.,,Sodæ Effervescens5 to 10 fld. ozs.							•	
,, Sodæ Chloratæ 10 to 20 mins. ,, Sodæ Effervescens 5 to 10 fld. ozs.	27						•	
,, Sodæ Effervescens 5 to 10 fld. ozs.		and the second se			C	*		
					1	•		
N THIT A DATAS OF	>>			ens			*	Contraction of the second s
, Strychninæ 5 to 10 mins.	,	Stryenin	aæ	1.				5 to 10 mins.

.

.

1 grain, gradually

Liquor Trinitrini				1 to 2 mins.
Lithiæ Carbonas				3 to 6 grains.
,, Citras				5 to 10 grains.
Lupulin				5 to 10 grains.
Magnesia				10 to 60 grains.
Magnesiæ Carbonas .				10 to 60 grains.
Magnesiæ Carbonas . ,, ,, Levis ,, Sulphas		1.1		10 to 60 grains.
Sulphas				60 grains to 1 oz. or
", " "	•			more.
", Effervescens .				1 to 1 oz.
Manganesii Sulphas (as a pr	rat	ival		
Manno	ugai	ivej	•	60 to 120 grains.
Manna	•			60 grains to 1 oz.
Mastiche (resin, in powder)	•	•	•	20 to 40 grains.
Matico (in powder) .	-			30 to 60 grains.
Misturæ. Those omitted ma	iy be	given	1 IN	
doses from	•	•		1 to 2 fld. ozs.
Mistura Ammoniaci .				$\frac{1}{2}$ to 1 fld. oz.
,, Gentianæ				$\frac{1}{2}$ to 1 fid. oz.
,, Guaiaci				$\frac{1}{2}$ to 2 fld. ozs.
,, Scammonii .				1 to 2 fld. ozs., for
				a child.
" Sennæ Composita				1 to 11 fld. ozs.
Morphiæ Acetas				1 to 1 grain.
", Hydrochloras .				1 to 1 grain.
Moschus				5 to 10 grains.
Mucilago Acaciæ				ad libitum.
,, Tragacanthæ .				1 fld. oz., and up-
,,				wards.
Myristica (in powder) .				5 to 15 grains.
Myrrh (in powder)				10 to 30 grains.
Nux Vomica (in powder)				1 to 3 grains.
Olea. Those omitted may	he	rivon	in	r to o Brains.
Janes Course	00	given	All	1 to 5 mins.
	•	•	•	and the second
Oleum Amygdalæ		•	•	1 fid. drm. to 1
0				fld. oz.
,, Copaibæ	•	•		5 to 20 mins.
,, Crotonis	•			to 1 min.
,, Cubebæ	•			5 to 20 mins.
,, Juniperi	•			1 to 10 mins.
,, Morrhuæ				1 to 8 fld. drms.
,, Olivæ				1 fld. drm. to 1
				fld. oz.

A REAL PROPERTY OF THE REAL PR				
leum Phosphoratun	1 .			5 to 10 mins.
", Ricini				1 to 8 fld. drms.
" Terebinthinæ	(as sti	mulant	and	
		etic) .		10 to 20 mins.
		anthelm		
		ative) .		2 to 6 fld. drms.
pium (powdered).				1 to 2 grains.
xymel				1 to 2 fld. drms.
, Scillæ .				1 to 1 fld. drm.
araldehydum .				1 to 11 fld. drms.
areira (in powder)				30 to 60 grains.
eppsin				2 to 10 grains.
henacetinum .				5 to 10 grains.
				3 to 20 grains.
hosphorus				1 to 1 grain.
hierotoxinum .				100 to 30 grain.
Elulæ. The dose of	those o	mitted :	is .	5 to 10 grains.
llula Ferri				1 to 4 pills.
,, Carbonat	tis .			5 to 20 grains.
				3 to 8 grains.
,, Iodidi . ,, Hydrargyri . ,, Phosphori .				3 to 8 grains.
.,, Phosphori .				3 to 6 grains.
, Plumbi cum O	pio.			3 to 5 grains.
,, Quiniæ				2 to 10 grains.
,, Saponis Compo	sita			3 to 5 grains.
,, Scammonii Cor	nposita			5 to 15 grains.
mento				5 to 20 grains.
per Nigrum .				5 to 15 grains.
perina				1 to 10 grains.
mumbi Acetas .				1 to 4 grains.
", Iodidum .				4 to 1 grain.
podophylli Resina .				1 to 1 grain.
potassii Acetas .				10 to 20 grains.
,, Bicarbonas				10 to 40 grains.
", Bromidum				5 to 30 grains.
,, Carbonas .				10 to 30 grains.
,, Chloras .				10 to 30 grains.
,, Citras .			State -	20 to 60 grains.
,, Iodidum .				2 to 10 grains.
,, Nitras .			100 · 11	10 to 30 grains.
,, Sulphas (as a	a purgat	ive) .		15 to 60 grains.
,, Sulphurata				3 to 6 grains.
and the second se				A DESCRIPTION OF THE REAL PROPERTY OF THE REAL PROP

Potassii Tartras		60 mmins to 1 mm
	•	60 grains to ½ oz.
,, ,, Acida	•	20 to 60 grains.
Pulvis Amygdalæ Compositus .	•	60 to 120 grains.
,, Antimonialis	•	3 to 10 grains.
,, Aromaticus	•	10 to 30 grains.
,, Catechu Compositus		20 to 40 grains.
,, Cretæ Aromaticus		10 to 60 grains.
, ,, cum Opio		10 to 40 grains.
,, Elaterini Compositus . ,		1 to 5 grains.
,, Glycyrrhizæ Compositus .		30 to 60 grains.
,, Ipecacuhanæ Compositus .		5 to 15 grains.
,, Jalapæ Compositus		20 to 60 grains.
,, Kino Compositus		5 to 20 grains.
" Opii Compositus		2 to 5 grains.
", Rhei Compositus		20 to 60 grains.
" Scammonii Compositus .		10 to 20 grains.
,, Tragacanthæ Compositus .		20 to 60 grains.
Quassia (pulv.)		10 to 20 grains.
Quiniæ Sulphas		1 to 10 grains.
,, Valerianas		1 to 5 grains.
Rhei Radix		5 to 20 grains.
Rhus Toxicodendron (powdered leaves)		$\frac{1}{2}$ to 1 grain.
Ruta (powdered leaves)	1	20 to 40 grains.
Sabinæ Cacumina		4 to 10 grains.
Company (the ann marin)	•	10 to 30 grains.
Santonica (worm seed)	•	10 to 60 grains.
	•	
Santoninum (Santonin-crystallized)	•	2 to 6 grains.
Sapo Durus, or Sapo Mollis (as antacids)	•	5 to 20 grains.
Scammoniæ Resina	•	3 to 8 grains.
Scammonium (gum resin in powder)	•	5 to 10 grains.
Scilla · · · · · ·	•	1 to 3 grains.
Senega (in powder).	•	20 to 60 grains.
Senna (powdered leaves)		30 to 120 grains.
Serpentaria (in powder)	•	10 to 20 grains.
Sinapis (as an emetic)	•	from a dessert- to a
		table-spoonful.
Soda Tartarata		1 to 1 oz.
Sodæ Acetas		20 to 60 grains.
,, Arsenias		To to 1 grains.
,, Biboras		10 to 60 grains.
"Bicarbonas		10 to 60 grains.
" Carbonas		5 to 30 grains.

Sodæ Carbonas Exsiccata				3 to 10 grains.
City tantung Fformann	q		-	60 grains to 1 oz.
Umenhamhia				5 to 10 grains.
				1 to 1 oz.
Culphan		•	•	1 to 1 oz.
Cultura	•	•	•	20 to 60 grains.
		•		
Valerianas		•	•	1 to 5 grains.
Sodii Nitris		•	•	2 to 5 grains.
,, Phosphas Effervescens .		•	•	1 to 1 oz.
, Sulphas Effervescens .		•	•	1 to 1 oz.
			•	60 to 120 grains.
Spiritus Ætheris		•	•	30 to 90 mins.
", ", Nitrosi.		•	•	30 min. to 2 fld. drm.
,, Ammoniæ Aromaticu		•		30 min. to 1 fld.drm.
", ", Fœtidus .				1 to 1 fld. drm.
,, Armoraciæ Composit				1 to 2 fld. drms.
, Cajuputi				1 to 1 fld. drm.
", Camphoræ				10 to 30 mins.
,, Chloroformi (Chloric	Eth	er)		20 to 60 mins.
,, Juniperi				30 mins. to 11 fld.
				drms.
,, Lavandulæ .				1 to 1 fld. drm.
,, Menthæ Piperitæ				30 to 60 mins.
Maniation				30 to 60 mins.
Decompanie				10 to 50 mins.
City 1 to the second se				3 to 10 grains.
Stramonium (pulv. fol.) .				1 grain.
Strychnina				1 to 1 grain.
Ctemper Dumpanativa				5 to 20 grains.
Succus Belladonnæ .				5 to 15 mins.
Conii				30 to 60 mins.
" Hyoscyami .				30 to 60 mins.
,, Scoparii				1 fld. drm. to $\frac{1}{2}$ oz.
				1 to 2 fld. drms.
Sulphonal				15 to 40 grains.
Sulphid. Ammon	1			3 mins.
				1/2 to 2 grains.
a 1 1			•	20 grs. to 1 drm.
	•	1	-	20 grs. to 1 drm.
Sumbul (pulv.)	•			20 grs. to 1 urm. 20 to 60 grains.
Syrupi. Where omitted the d	iona			1 fld. drm.
syrupus Chiorai		• ~		$\frac{1}{2}$ to 2 fld. drms.

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	-	

Syrupus	Ferri Iodidi		1	1 to 1 fld. drm.
	Ferri Iodidi ,, Subchloridi .			i to 1 fld. drm.
,,	Rhei			1 to 4 fld. drms.
	Scillæ			
	Sennæ			
and the second se	Violæ			1 to 2 fld. drms.
Tamarin				1 oz., and upwards.
Tinctura	a Aconiti			
33	Actææ Racemosæ .			
23	Asafœtidæ			30 to 60 mins.
12	Belladonnæ			5 to 20 mins.
33	Benzoini Composita .			30 to 60 mins.
,,	Camphoræ Composita			15 mins. to 1 fld.dr.
	Cannabis Indicæ .	-		5 to 20 mins.
,,	Cantharidis			5 to 20 mins.
"	Capsici			10 to 20 mins.
"				
33	Castorei			
3.9	Chloroformi Composita			20 to 60 mins.
,,		•		10 to 30 mins.
,,,	Digitalis			10 to 30 mins.
,,	Ergotæ			10 to 60 mins.
**	Ferri Acetatis			5 to 30 mins.
,,	,, Perchloridi .			10 to 30 mins.
,,				
	Hamamelidis			
"	Hellebori (Lond. 1851)			30 mins. to 1 fld.
"	10100011 (20010, 2002)			drm.
	Hydrastis			20 to 60 mins.
"		•		1 to 1 fld. drm.
,,	Hyoscyami			F 1 00 1
,,	Iodi			
,,	Laricis			15 to 30 mins.
	Lobeliæ		•	10 mins. to 1 fld.
				drm.
"	,, Ætherea .			10 mins. to 1 fid.dr.
33	Myrrhæ			1 to 1 fld. drm.
,,	Nucis Vomicæ.			10 to 20 mins.
	Opii			5 to 40 mins.
"	,, Ammoniata .			1 to 1 fld. drm.
"	Rhei (as a stomachic)			I to 2 fld. drms.
23	,, (as a purgative)			4 to 8 fld. drms.
,,	Sabinæ			20 mins. to 1 fld. dr.
,,	Dabina · · ·			L' man of 1 man

finctura Scillæ		10 to 30 mins.
,, Sennæ		1 fld. drm. to 4
		fld. ozs.
., Stramonii		10 to 30 mins.
Stronhanthi		2 to 10 mins.
Sumbul		10 to 30 mins.
Tolutana	1	20 to 40 mins.
Valeriana Ammoniata		1 to 1 fid. drm.
Voratri Viridia		5 to 20 mins.
Zingiharia	17403	15 mins. to 1 fld.
,, Zingiberis		drm.
,, Fortior		5 to 20 mins.
Cormentilla (in powder).		20 to 60 grains.
Pragacantha (powder)		20 grs. & upwards.
Prochisci. The dose of those omitted	in	20 grs. a upwards.
	19	one to six.
from	•	
Prochisci Ipecacuanhæ		one to three.
Hva Ursæ (powdered leaves)		10 to 30 grains.
Valeriana (in powder)		10 to 30 grains.
Veratrina (the alkaloid)		1 to 1 grain.
Veratrum Viride (powdered rhizome)	•	1 to 3 grains.
Finum Aloes.	:	1 to 2 fld. drms.
,, Antimoniale (in febrile affection	1S)	5 mins. to 1 fld.
		drm. (?)
,, (as an emetic) .	•	1/2 to 1 fld. oz.
,, Colchici		10 to 30 mins.
,, Ferri		1 to 4 fld. drms.
,, ,, Citratis		1 to 4 fld. drms.
,, Ipecacuanhæ (as an expectorant)		5 to 40 mins.
,, ,, (as an emetic) .		3 to 6 fld. drms.
" Opii		10 to 40 mins.
,, Quiniæ		1 to 1 fld. oz.
, Rhei		1 to 2 fld. drms.
Linci Acetas		1 to 2 grains.
,, ,, (as an emetic)		10 to 20 grains.
" Carbonas		1 to 5 grains.
" Chloridum		1 to 2 grains.
" Oxidum		2 to 10 grains.
", Sulphas (tonic or astringent) .	1	1 to 3 grains.
,, ,, (as an emetic) .	1288	10 to 30 grains.
Valamanag		1 to 3 grains.
(ingihar (nuly)	and a	
comprosi (para.) · · · ·	1. 1. 19	10 to 30 grains.

THE UNOFFICIAL FORMULARY

OF THE

BRITISH PHARMACEUTICAL CONFERENCE

CHLORAL CUM CAMPHORÂ.

Chloral with Camphor.

Take of

Camphor 1 ounce. Hydrate of Chloral . . . 1 ounce.

Rub together in a warm mortar until completely liquified, and filter if necessary.

CHLOROFORMUM ACONITI.

Chloroform of Aconite.

Take of

Aconite Root					20 ounces.
Strong Solution	n of	Amn	nonia		11 fld. ounces.
Distilled Wate	r				1 pint.
Chloroform .					q.s.

Bruise the aconite root, and moisten thoroughly with the solution of ammonia and distilled water previously mixed. Macerate for four hours, dry carefully, and reduce to No. 40 powder. Pack tightly in a percolator provided with a tap and closely-fitting cover. Macerate for twenty-four hours with wenty fluid ounces of chloroform, percolating slowly until thirty mid ounces are obtained.

CHLOROFORMUM BELLADONNÆ.

Chloroform of Belladonna.

'Take of

Belladonna I Strong Solut			der	20 ounces. 11 fld. ounces.
Distilled Wa				1 pint.
Chloroform				q.s.

Moisten the belladonna thoroughly with the solution of mmonia and distilled water previously mixed. Macerate for our hours, dry carefully, and reduce to No. 60 powder again. ack tightly in a percolator provided with a tap and closelytting cover. Macerate for twenty-four hours with twenty mid ounces of chloroform; then pour on successive quantities of chloroform, percolating slowly until thirty fluid ounces are bbtained.

CHLOROFORMUM CAMPHORATUM.

Camphorated Chloroform.

Take of			
Camphor			2 ounces.
Chloroform			1 fld. ounce.
Dissolve			

COLLODIUM BELLADONNÆ.

Collodion of Belladonna.

SYN. : EMPLAST. BELLADONNÆ FLUIDUM. Take of

Alcoholic Extract of Belladonna . 960 grains or q.s. Rectified Spirit q.s.

Dissolve the extract in nine fluid ounces of spirit, then add-

Pure Ether (S.G. 0.72) . . . 9 fld. ounces.

Mix, set aside for twelve hours, decant, and dissolve in the mixture-

Camphor....130 grains.Pyroxylin.... $\frac{1}{2}$ ounce.

Then add-

Rectified Spirit } in equal volumes sufficient to Pure Ether } produce one pint.

COLLODIUM STYPTICUM.

Styptic Collodion.

Benzoin Absolute Alcohol .		
Dissolve and filter. In the Tannic Acid .		
And add— Pure Ether (S.G. 0.72) Pyroxylin		4 fld. ounces. 44 grains.
Mix, set aside for three day		

ELIXIR CASCARÆ SAGRADÆ.

Elixir of Cascara Sagrada.

Tincture of Fresh	Oran	nge	Peel			ounces.
Rectified Spirit						ounce.
Cinnamon Water				3	fld.	ounces
Syrup				6	fld.	ounces
Liquid Extract of		ara	Sagrada	 8	fld.	ounces.

Mix.

Dose.-15 minims to 2 fluid drachms.

ELIXIR GUARANÆ.

Elixir of Guarana.

1 1 1		11.			
	G 1	-	0	- 00	5 3
-			~		

Guarana, in No.	60 pc	owder		4	ounces.
Light Magnesia				1	ounce.

Oil of Cinnamon		 	6 minims.
Syrup			2 fld. ounces.
Proof Spirit .			q.s.

Mix intimately the powders, and moisten them with three fluid ounces of proof spirit. After twenty-four hours' maceration, mix with eight ounces of coarse sand, and pack in a percolator; pass through proof spirit until sixteen ounces are obtained, then transfer the mass to a press-bag and apply pressure. To the percolate add the syrup and oil of cinnamon, and make up to one pint by addition of the expressed liquid, previously reduced by evaporation if necessary.

Dose. $-\frac{1}{2}$ to 2 fluid drachms.

ELIXIR GLUSIDI.

Elixir of Saccharin.

Take of

Gluside		480 grains.
Bicarbonate of Sodium	1.	240 grains.
Rectified Spirit . '		21 fld. ounces.
Distilled Water .		q.s.

Rub the gluside and bicarbonate of sodium in a mortar, with half-a-pint of distilled water gradually added. When dissolved, add the spirit, filter, and wash the filter with sufficient distilled water to produce one pint of elixir.

Each fluid drachm contains three grains of gluside. Dose.-5 to 20 minims.

ELIXIR PHOSPHORI.

Elixir of Phosphorus.

Take of

Add the tincture to the glycerine, and shake well. This elixir should be preserved from the light. Each fluid drachm contains one-fiftieth of a grain of phosphorus.

Dose. -15 minims to 1 fluid drachm,

ELIXIR RHEI.

Elixir of Rhubarb.

Take of		1.			
Rhubarb Root, in	No.	12 pc	wder		5 ounces.
Fennel Fruit, bru	uised				2 ounces.
Glycerine .					3 fld. ounces.
Refined Sugar					4 ounces.
Rectified Spirit, Distilled Water.			}of e	ach	q.s.

Moisten the rhubarb and fennel with fifteen fluid ounces of the mixed spirit and water, macerate for forty-eight hours, and express. Break up the marc, and add to it sufficient of the same menstruum to furnish, with the previous pressing, fifteen fluid ounces of clear product. Express again after twenty-four hours' maceration. Unite the liquors, allow to stand for two days, and filter into the sugar and glycerine. Dissolve without heat ; then, if necessary, add sufficient of the above menstruum to make the product measure one pint.

Dose. -1 to 3 fluid drachms.

ELIXIR SENNÆ.

Elixir of Senna.

Take of

Alexandrian Senna . . . 1 pound. Rectified Spirit of each . . q.s. Distilled Water of each . . q.s. Refined Sugar, in coarse powder . 12 ounces.

Mix four fluid ounces of rectified spirit with twelve fluid ounces of water, and with it moisten evenly the senna. Pack tightly in a closed vessel, and macerate for three days. Express forcibly, and pour the product on the sugar. Break up the marc, and add to it sufficient of the same menstruum to furnish in all sixteen fluid ounces of product. Express again after twenty-four hours' maceration, add the liquor to the previouslyobtained product, and the sugar, heat in a closed vessel, by means of a water-bath, to 200° F., and maintain at that temperature for ten minutes. When cold, strain and add, after mixing—

Chloroform	1 1 1	24 minims.
Oil of Coriander .		21 minims.
Tincture of Capsicum		1 fld. drachm.
Rectified Spirit .		3 fld, drachms.

Agitate thoroughly, and if necessary add proof spirit to make the product measure twenty-four fluid ounces.

Dosc.-1 to 3 fluid drachms.

ELIXIR SIMPLEX.

Simple Elixir.

Oil of Bitter Orange .		30 minims.
D		6 fld. ounces.
Dissolve and add-		
Distilled Cinnamon Wat		7 fld. ounces.
Syrup		7 fld. ounces.

Mix. Filter through paper moistened with proof spirit, and well sprinkled with kaolin, returning the first portions of filtrate until it passes through bright.

Dose.-20 to 60 minims.

EMULSIO OLEI MORRHUÆ, II.

Emulsion of Cod Liver Oil.

Take of

m. L.

Cod Liver Oil	8 fld. ounces.
The Yolks of Two Eggs	
Tragacanth, in powder	16 grains.
Elixir of Saecharin	1 fld. drachm.
Simple Tincture of Benzoin	1 fld. drachm.
Spirit of Chloroform	4 fld. drachms.
Essential Oil of Bitter Almonds .	8 minims.
Distilled Water, sufficient to pro-	
duce	16 fld. ounces.

Measure five fluid ounces of the distilled water, place the tragacanth in powder in a dry mortar, and triturate with a little of the cod liver oil; then add the yolks of eggs, and stir briskly, adding water as the mixture thickens. When of a suitable consistence, add the remainder of the oil and water alternately, with constant stirring, avoiding frothing. Transfer to a pint bottle, add the elixir of saccharin, tincture of benzoin, spirit of chloroform, and oil of almonds, previously mixed; shake well, and add distilled water, if necessary, to make the product measure sixteen fluid ounces.

Dose. -2 to 8 fluid drachms.

EXTRACTUM BELLADONNÆ FOLII ALCOHOLICUM.

Alcoholic Extract of Belladonna Leaf.

Take of

Belladonna Leaf, in No. 60 powder 1 pound. Rectified Spirit q.s.

Moisten the powder with twelve fluid ounces of the spirit, pack it tightly in a percolator, and pour on sufficient menstruum to saturate the powder and leave a stratum above it. When the liquid begins to drop, close the lower orifice and macerate for forty-eight hours; then allow percolation to proceed, gradually adding menstruum until the belladonna is exhausted. Distil off most of the spirit, and evaporate the residue over a water-bath to the consistence of an extract.

EXTRACTUM GRINDELIÆ LIQUIDUM.

Liquid Extract of Grindelia.

Take of

Moisten the powder with eight fluid ounces of the spirit, pack it tightly in a percolator, and pour on sufficient menstruum to saturate the powder and leave a stratum above it. When the liquid begins to drop, close the lower orifice and macerate for forty-eight hours; then allow percolation to proceed, gradually adding menstruum until the grindelia is exhausted. Reserve the first seventeen fluid ounces of the percolate, distil off the spirit from the remainder, and evaporate the residue to a soft extract; dissolve this in the reserved portion, and add enough menstruum to make the liquid extract measure one pint.

Dose. -20 to 30 minims.

EXTRACTUM HÆMATOXYLI LIQUIDUM.

Liquid Extract of Logwood.

Take of

Unfermented Logwood, in No. 16

powder 20 ounces. Distilled Water 6 pints.

Boil the logwood with two pints of water in a covered copper or enamelled pan for half-an-hour, and strain. Add two pints of water, boil for another half-hour, and again strain. Repeat the process for a third time, and having mixed the strained liquors, evaporate over a water-bath (or preferably *in vacuo*) until the product measures one pint. Set aside for seven days, and then decant the clean liquor by means of a syphon from any sediment that may have been deposited.

Dose. -1 to 2 fluid drachms.

EXTRACTUM TRITICI LIQUIDUM.

Liquid Extract of Triticum.

Take of

Triticum, in No. 20 powder . . 10 ounces. Rectified Spirit } of each . . q.s.

Moisten the powder with four fluid ounces of distilled water, pack in a percolator and pour boiling distilled water upon it until it is exhausted. Evaporate the percolate to fifteen fluid ounces, add to it five fluid ounces of rectified spirit, mix, and set aside for forty-eight hours. Then filter the liquid and add to the filtrate enough of a mixture composed of three fluid parts of distilled water and one of rectified spirit to make the liquid extract measure one pint.

Dose.-1 to 6 fluid drachms.

GLYCERINUM BELLADONNÆ.

Glycerine of Belladonna.

Take of

Extract of Belladonna . . . 1 ounce. Boiling Distilled Water . . 1 fld. drachm. Rub down in a warm mortar and add—

Glycerine . . q.s. to produce 2 fld. ounces.

INJECTIO CURARE HYPODERMICA.

Hypodermic Injection of Curare.

Take of

Curare	(the South	An	nericar	1 Ind	ian	
Arrow	Poison)					5 grains.
Distille	d Water					q.s.

Reduce the curare to powder in such a way as to prevent its coming into contact with the naked hand, and add distilled water to form a thin paste. Transfer to a small funnel plugged with absorbent wool, and gradually pour upon it distilled water until one fluid drachm is obtained. If the injection be required in haste, proceed in the following manner—

To the five grains of curare reduced to powder, add one fluid drachm of distilled water, throw on a filter, and when the liquor ceases to drop, pour over the contents of the filter distilled water sufficient to produce one fluid drachm.

Dose.—1 to 6 minims.

LINIMENTUM OPII AMMONIATUM.

Ammoniated Liniment of Opium.

Take of

Soap Liniment	6 fld. ounces.
Compound Camphor Liniment	6 fld. ounces.
Tincture of Opium	6 fld. ounces.
Belladonna Liniment	1 fld. ounce.
Stronger Solution of Ammonia	1 fld. ounce.

Mix, allow to stand a week, and filter quickly.

LIQUOR BROMO-CHLORAL COMPOSITUS.

Compound Solution of Bromo-Chloral.

Take of	
Hydrate of Chloral	1,600 grains.
Tincture of Indian Hemp .	400 minims.
Tincture of Fresh Orange Peel	400 minims.
Juice of Henbane	1,600 minims.
Syrup	3ª fld. ounces.
Liquid Extract of Liquorice .	$\frac{1}{2}$ fld. ounce.
Dissolve.	

Take of

Bromide of Pot	assium		1,600 grains.	
Distilled Water	r .		q.s.	

Dissolve the bromide of potassium in seven fluid ounces of distilled water, and add to the former solution; filter, and wash the filter with sufficient distilled water to produce one pint.

This preparation should be shaken whenever any of it is to be dispensed.

LIQUOR FERRI HYPOPHOSPHITIS FORTIS.

Strong Solution of Hypophosphite of Iron.

Take of

Sulphate of Iron	. 760 grains.
Hypophosphite of Barium	. 830 grains.
(Containing not less than 95 per	
Diluted Sulphuric Acid.	
Distilled Water	. 1 pint.

Put the sulphate of iron with five fluid ounces of distilled water in a tall twenty-four ounce bottle, and shake till dissolved. Dissolve the hypophosphite of barium in the remaining fifteen fluid ounces of distilled water, and add slowly to the former solution. Shake and add the diluted sulphuric acid; again shake and set aside for two days, then syphon off the clear liquid. Keep it in bottles quite full and in a dark place.

Each fluid drachm contains about five grains of hypophosphite of iron. The solution has an acid reaction, and it should not give more than a faint precipitate, if any, with either diluted sulphuric acid, or solution of chloride of barium.

Dose.—10 to 30 minims.

LIQUOR HYPOPHOSPHITUM COMPOSITUS.

Compound Solution of Hypophosphites.

SYN. : LIQUOR FERRI HYPOPHOSPHITIS COMPOSITUS. Take of

Hypophosphite	of Calcium	100	320	grains.
Hypophosphite	of Sodium		320	grains.

Hypophosphite of Strong Solution of	160 grains.		
of Iron Hypophosphorous		per	6 fld, ounces.
cent		. Por	1 fld. ounce.
Distilled Water .			q.s.

Dissolve the hypophosphites of calcium, sodium, and magnesium in twelve fluid ounces of distilled water; add the solution of hypophosphite of iron and the hypophosphorous acid. Filter, and make up to one pint by the addition of distilled water.

Each fluid drachm contains about two grains each of hypophosphite of sodium and calcium, one grain of hypophosphite of magnesium, and one and a half grains of hypophosphite of iron.

Dose. -1 to 2 fluid drachms.

LIQUOR PICIS CARBONIS.

Solution of Coal Tar.

Take of

Moisten the powder with a suitable quantity of the menstruum, and macerate for twenty-four hours in a closed vessel. Then pack in a percolator, and gradually pour rectified spirit upon it until one pint of percolate is obtained. To this add

Prepared Coal Tar . . . 4 ounces.

Digest at a temperature of 120° F. for two days, allow to become cold, and decant or filter.

PIX CARBONIS LIQUIDA PRÆPARATA.

Prepared Coal Tar.

Place commercial coal tar in a shallow vessel, and heat at a temperature of 120° F. for one hour, stirring frequently.

SYRUPUS ACIDI HYDRIODICI.

Syrup of Hydriodic Acid.

Take of

Iodide of P	otassi	ium			152 grains.
Hypophosp	ohite (of Pot	assiu	m	12 grains.
Tartaric Ad	eid				140 grains.
Water					200 minims.
Proof Spiri Syrup	it } of	each		•	q.s.

Dissolve the potassium salts in the water and the acid in five drachms of proof spirit. Mix the solutions, shake well, and place in ice water for thirty minutes, shaking occasionally. Filter and wash with proof spirit until filtrate ceases to produce more than a faint cloudiness when dropped into a solution of nitrate of silver. Evaporate in a tared capsule over a waterbath to 600 grains, and mix it, when cold, with syrup sufficient to produce one pint.

Contains about one per cent. by weight of hydriodic acid. Dose. -20 to 60 minims, well diluted.

SYRUPUS APOMORPHINÆ HYDROCHLORATIS.

Syrup of Hydrochlorate of Apomorphine.

Take of

Hydrochle	orate of	Apo	omorpl	hine	5 grains.
Dilute Hy	drochl	oric .	Acid	. 2	 2 fld. drachms.
Rectified &	Spirit				7 fld. drachms.
Distilled 1	Water				7 fld. drachms.
Syrup .					 18 fld. ounces.

Mix the rectified spirit and distilled water, dissolve the hydrochlorate of apomorphine in the mixture by agitation ; add the hydrochloric acid, and mix with the syrup.

Dose, $-\frac{1}{2}$ to 1 fluid drachm.

SYRUPUS BUTYL-CHLORAL.

Syrup of Butyl-Chloral.

Take of

Dissolve the hydrate of butyl-chloral in the syrup previously made hot.

Dose.-1 to 4 fluid drachms.

SYRUPUS CALCII HYPOPHOSPHITIS.

Syrup of Hypophosphile of Calcium. Take of

Hypophosphite of Calcium . . 160 grains. Distilled Water 9 fld. ounces.

Dissolve and filter. To the filtered solution add

Refined Sugar, in coarse powder . 1 pound.

Dissolve with the aid of a little heat, strain, and add after cooling

Hypophosphorous Acid . . 20 minims.

Distilled Water . q.s. to produce 1 pint.

Mix. Each fluid drachm contains one grain of hypophosphite of calcium.

Dose.-1 to 4 fluid drachms.

SYRUPUS CASCARÆ SAGRADÆ.

Syrup of Cascara Sagrada.

Take of

Liquid Ext	ract	of Cas	cara i	Sag	rada	4	fld. ounces.	
Liquid Ext	ract	of Liqu	uorie	e .		3	fld. ounces.	
Carminative						2	fld. drachms.	
Syrup .			q.s.	toj	produce	1	pint.	

Mix.

Dose. -1 to 4 fluid drachms.

SYRUPUS CODEINÆ.

Syrup of Codeine.

Take of

	Codeine, in powder			20 grains.
	Proof Spirit .			11 fld. ounces.
	Distilled Water .			11 fld. ounces.
-	1 1 11			

Dissolve, and add

Syrup . . q.s. to produce 1 pint. Dose. $-\frac{1}{2}$ to 2 fluid drachms.

SYRUPUS FERRI BROMIDI.

Syrup of Bromide of Iron.

Take of

Iron Wire, free fi	rom	oxide		1 ounce.
Bromine .				533 grains.
Refined Sugar		-		14 ounces.
Distilled Water				q.s.

Dissolve the sugar in six ounces of distilled water, by the heat of a water-bath. Put the iron wire with four ounces of distilled water into a glass flask, having a capacity of at least one pint, and surround it with cold water. Then add the bromine in successive quantities ; shake occasionally until the froth becomes white, and the reaction is complete. Filter the solution into the warm syrup, and add, if necessary, distilled water sufficient to produce one pint.

Each fluid drachm contains about four and a half grains of bromide of iron.

Dose. $-\frac{1}{2}$ to 1 fluid drachm.

SYRUPUS FERRI HYPOPHOSPHITIS.

Syrup of Hypophosphite of Iron.

Take of

Strong Solution of Hypophosphite

of Iron . . 4 fld. ounces.

Syrup .

Mix. Each fluid drach contains about one grain of hypophosphite of iron.

Dose. - 1 to 2 fluid drachms.

SYRUPUS FERRI ET QUININÆ HYDROBROMATUM.

Syrup of the Hydrobromates of Iron and Quinine.

SYN. : SYRUPUS FERRI BROMIDI CUM QUININA.

Take of

Acid Hydrobrom:	ate o	of Quin	ine	160 grains.
Diluted Hydrobr	omic	Acid		 1 fld. ounce.
Distilled Water				1 fld. ounce.

16 fld. ounces.

Mix the diluted hydrobromic acid with the distilled water, and in the mixture dissolve the acid hydrobromate of quinine. Then add

Syrup of Bromide of Iron, q.s. to

produce 1 pint.

Each fluid drachm contains one grain of acid hydrobromate of quinine, and about four grains of bromide of iron.

Dose. $-\frac{1}{2}$ to 1 fluid drachm.

SYRUPUS FERRI PHOSPHATIS COMPOSITUS.

Compound Syrup of Phosphate of Iron.

Take of

Iron Wire, free o Concentrated Pho		.cid (S	.G.	$37\frac{1}{2}$ grains.
1.5.) .				1 fld. ounce.
Distilled Water				5 fld. drachms.

Put these into a glass flask, so that the liquid completely covers the iron wire, plug the neck with cotton wool, and heat gently till dissolved. Add this solution to the following when the latter has cooled—

Precipitated Carbonate of Concentrated Phosphoric Distilled Water	Acid		4 fld. drachms.
Mix and add Bicarbonate of Potassium			9 grains.
Phosphate of Sodium . Filter and set aside. Then ta		•	9 grains.
Cochineal Distilled Water			

Boil for fifteen minutes and filter, pouring over the filter a sufficient quantity of distilled water to produce seven fluid ounces of filtrate.

To this add

Refined Sugar

14 ounces.

Heat till dissolved, and strain. When cold, add the former filtrate set aside, and a sufficient quantity of distilled water to make the whole measure one pint. Thus made, the syrup will contain in each fluid drachm about half a grain of phosphate of iron, and four-fifths of a grain of phosphate of calcium, with small quantities of the phosphates of potassium and sodium. It should be kept in bottles quite full. Dose. -1 to 2 fluid drachms.

SYRUPUS FERRI QUININÆ ET STRYCHNINÆ HYDROBROMATUM.

Syrup of the Hydrobromates of Iron, Quinine, and Strychnine.

SYN. : SYRUPUS FERRI BROMIDI CUM QUININA ET STRYCHNINA.

Take of

Strychnine, in powder..

Mix the diluted hydrobromic acid with the distilled water, and in the mixture dissolve the strychnine and acid hydrobromate of quinine, by the aid of a gentle heat. Then add

Syrup of Bromide of Iron, q.s. to

produce 1 pint.

Each fluid drachm contains one sixty-fourth of a grain of strychnine, one grain of acid hydrobromate of quinine, and about four grains of bromide of iron.

Dose. -1 to 1 fluid drachm.

SYRUPUS FERRI QUININÆ ET STRYCHNINÆ PHOSPHATUM.

Syrup of the Phosphates of Iron, Quinine, and Strychnine. Take of

Iron Wire, free from or Concentrated Phosphor	75 grains.		
1.5)		 .u.	10 fld. drachms.
Strychnine, in powder			5 grains.
Phosphate of Quinine			120 grains.
Simple Syrup .		 1. 1.	14 fld. ounces.
Distilled Water .		1	q.s.
loss the iron wire and	11.	 Trees	de and a support

Place the iron wire and the phosphoric acid, previously

diluted with an equal volume of distilled water, in a small flask, plug the neck with cotton wool, and heat gently until the wire is dissolved. Then add the strychnine and phosphate of quinine, and when these are dissolved filter into the syrup and finally add a sufficient quantity of distilled water to make the product measure one pint.

Each fluid drachm will contain one grain of phosphate of iron, three-quarters of a grain of phosphate of quinine, and one thirty-second of a grain of strychnine.

Dose. --- to 1 fluid drachm.

SYRUPUS HYPOPHOSPHITUM COMPOSITUS.

Compound Syrup of Hypophosphites.

Take of

Quinine (alkaloid)		20 grains.
Strychnine		1 grain.
Hypophosphorous Acid, 30 per cent		2 fld. drachms.
Strong solution of hypophosphit	e	
of iron		3 fld. ounces.
Dissolve, and add		
Hypophosphite of calcium .		80 grains.
Hypophosphite of manganese.		40 grains.
Hypophosphite of potassium .		40 grains.
Dissolve, filter, and add		
Syrup sufficient to produce .		1 pint.
Mix. Each fluid drachm contains one	-hur	ndredth of a grai
f strychnine, and one-eighth of a grain		and the second

Dosc. -1 to 2 fluid drachms.

SYRUPUS IPECACUANHÆ ACETICUS.

in

Acetic Syrup of Ipecacuanha.

Take of

Vinegar of Ipecacuanha		. 1 pint.
Refined Sugar		. 24 pounds.
Dissolve by the aid of a gentle	heat.	S.G. about 1.33.
Dose. $-\frac{1}{2}$ to 2 fluid drachms.		

SYRUPUS PRUNI VIRGINIANÆ.

Syrup of Wild Cherry.

Take of

Wild	Cherry	Bark,	in	No.	20	
powd	er .	1				3 ounces.
Refine	d Sugar,	in coar	se po	owder		15 ounces.
Glycer	ine .					11 fld. ounces.
Distill	led Wate	r.				q.s.

Moisten the powder with distilled water and macerate for twenty-four hours in a close vessel, then pack it in a percolator and gradually pour distilled water upon it until nine fluid ounces of percolate are obtained. Dissolve the sugar in the liquid by agitation, without heat, add the glycerine, strain, and, if necessary, pour sufficient distilled water over the strainer to produce one pint of syrup.

Dose. -1 to 2 fluid drachms.

SYRUPUS SODII HYPOPHOSPHITIS.

Syrup of Hypophosphite of Sodium.

Take of

Syrup . . q.s. to produce 1 pint.

Mix. Each fluid drachm contains one grain of hypophosphite of sodium.

Dose.-1 to 4 fluid drachms.

TINCTURA BENZOINI SIMPLEX.

Simple Tincture of Benzoin.

Take of

Benzoin,	in powder		2 ounces.
Rectified			 1 pint.

Macerate for twenty-four hours with frequent agitation; then filter, and add sufficient rectified spirit, if required, to produce one pint.

TINCTURA BRYONIÆ.

Tincture of Bryony.

Take of

Fresh Bryony Root Rectified Spirit Distilled Water of each . . q.s.

Ascertain the percentage of moisture in the root by drying one hundred grains of it over a water-bath. Bruise the remainder, after having calculated the moisture it contains, and reckon this as part of the water to form, with rectified spirit, a mixture equal in strength to proof spirit. Produce a tincture, by macerating for seven days, of such a strength that ten fluid ounces shall represent one ounce of the dried root.

Dose.—1 to 10 minims.

TINCTURA CALENDULÆ FLORUM.

Tincture of Marigold Flowers.

Take of

N	lari	go.	ld	Fle	ower	S, C	lried	, in	No.	20	

powder			4 ounces.
Proof Spirit			q.s.

Moisten the powder with eight fluid ounces of the menstruum, and macerate for twenty-four hours; then pack in a percolator, and gradually pour proof spirit upon it until one pint of tincture is obtained.

Dose. -5 to 20 minims.

TINCTURA CAPSICI FORTIOR.

Stronger Tincture of Capsicum.

Take of

Moisten the powder with a suitable quantity of the menstruum, and macerate for twenty-four hours in a closed vessel; then pack in a percolator, and gradually pour rectified spirit upon it until one and a half pints of tincture are obtained.

Dose. -1 to 3 minims. Used externally.

TINCTURA CARMINITIVA.

Carminative Tincture.

Take of

Cardamom Seeds,	bru	ised			600 grains.
Stronger Tincture			r .		11 fld. ounces,
Oil of Cinnamon					100 minims.
Oil of Caraway					100 minims.
Oil of Clove .				1	100 minims.
Rectified Spirit		q.s.	to p	roduce	1 pint.

Macerate the cardamoms in fifteen fluid ounces of the spirit for a week, decant, express, and dissolve the oils in the mixed tinctures, making up to one pint with rectified spirit.

Dose.-2 to 10 minims.

TINCTURA CONVALLARIÆ.

Tincture of Lily of the Valley.

Take of

Lily of the Valley Flowers and

Moisten the powder with a suitable quantity of the menstruum, and macerate for twenty-four hours; then pack in a percolator, and gradually pour proof spirit upon it until one pint of tincture is obtained.

Dose. - 5 to 20 minims.

TINCTURA COTO.

Tincture of Coto.

Take of

Coto Bark, bruised		2 ounces.	
Rectified Spirit .		1 pint.	

Macerate for seven days, with occasional agitation; then press, filter, and add sufficient rectified spirit to produce one pint.

I

Dose.-10 to 30 minims.

TINCTURA ERGOTÆ AMMONIATA.

Ammoniated Tincture of Ergot.

Take of

Moisten the powder with a suitable quantity of the menstruum, and macerate for twelve hours; then pack in a percolator, and gradually pour aromatic spirit of ammonia upon it until one pint of tincture is obtained.

Dose.-10 to 60 minims.

TINCTURA ERYTHROPHLŒI.

Tincture of Casca.

Take of

Moisten the powder with a suitable quantity of the menstruum, and macerate for twenty-four hours; then pack in a percolator, and gradually pour rectified spirit upon it until one pint of tincture is obtained.

Dose.-5 to 10 minims.

TINCTURA EUCALYPTI.

Tincture of Eucalyptus.

Take of

Eucalyptus	Lea	ves,	in	No.	20	
powder						4 ounces.
Rectified Sp.	irit					q.s.

Moisten the powder with a suitable quantity of the menstruum, and macerate for twenty-four hours; then pack in a percolator, and gradually pour rectified spirit upon it until one pint of tincture is obtained.

Dose. -15 minims to 2 fluid drachms.

TINCTURA EUONYMI.

Tincture of Euonymus.

Take of

Euonymus Bark, in No. 20 powder 4 ounces. Rectified Spirit 1 pint.

Moisten the powder with a suitable quantity of the menstruum, and macerate for twenty-four hours; then pack in a percolator, and gradually pour rectified spirit upon it until one pint of tincture is obtained.

Dose.-10 to 40 minims.

TINCTURA EUPHORBIÆ PILULIFERÆ.

Tincture of Euphorbia.

Take of

Moisten the powder with a suitable quantity of the menstruum, and macerate for twenty-four hours; then pack in a percolator, and gradually pour proof spirit upon it until one pint of tincture is obtained.

Dose.-10 to 30 minims.

TINCTURA IODI DECOLORATA.

Decolorized Tincture of Iodine.

Take of

Iodine..</t

Stronger Solution of Ammonia . 10 fld. drachms.

Keep the mixture in a warm place until decolorized, after which dilute it with

Rectified Spirit . q.s. to produce 1 pint.

TINCTURA PHOSPHORI COMPOSITA.

Compound Tincture of Phosphorus.

		_	-	
		ο.	\mathbf{n}	100
		•	U .	
 -	_	-		

Phosphorus			12 grains.
Chloroform			$2\frac{1}{2}$ fld. ounces.

Place in a stoppered bottle, and apply the heat of a waterbath until dissolved. Then add the solution to

Ethylic alcohol 121 fld. ounces.

Shake well. This tincture should be preserved from the light, in accurately-stoppered bottles.

Each fluid drachm contains one-tenth of a grain of phosphorus. Dosc. -3 to 12 minims.

TINCTURA PRUNI VIRGINIANÆ.

Tincture of Wild Cherry.

Take of

UNGUENTUM HYDRARGYRI OLEATI.

Ointment of Oleate of Mercury.

Take of

Oleate of Mercury . . . 1 ounce. Simple Ointment 1 ounce. Mix without heat.

UNGUENTUM OLEO-RESINÆ CAPSICI.

Ointment of Oleo-Resin of Capsicum.

Take of

Oleo-Resin of Capsicum . . 1 ounce.

Yellow Wax .			1	ounce.
Benzoated Lar	d.		4	ounces.

Melt the wax and lard at a low temperature, add the oleoresin, mix thoroughly, and, if necessary, strain through muslin. Stir until cold.

As a mild counter-irritant, the ointment will bear dilution from three to six times.

VINUM AURANTII DETANNATUM.

Detannated Orange Wine.

Take of

Orange Wine			1 gallon.
Gelatine, cut	small		1 ounce.

Macerate for fourteen days, and decant.

VINUM XERICUM DETANNATUM.

Detannated Sherry.

Take of

Sherry .	•			1 gallon.
Gelatine,	cut small		•	1 ounce.

Macerate for fourteen days, and decant.

SPRAY INHALATIONS

OF THE

THROAT HOSPITAL PHARMACOPCEIA.

Nebul	la Acid. Carbo	1	3 grs	water 1 oz.
,,	,, Lactio	3	30 mins	37 35
22	", Sulph	urosi.	40 to 60 mins. at a time.	
,,	,, Tanni		5 grs	>> >>
			(Bicarb. Soda 15 grs.)	
	Alkalina		Borax 15 grs.	
>>	Aikaina	• •	Acid. Carbol. 4 grs.	,, ,,
			Glycerine 45 mins. J	
.,	Aluminii Chl	or	Sol. Chlor. of Alum	,, ,,
			3 mins.	
	Aluminii .		Alum 8 grs	22 23
22	Calcis		Aq. Calc. q.s.	
22	Ferri Perchlon	rid	Iron Perchlorid. 3 rs.	,, ,,
27	", Sulph		Iron Sulphate 2 grs.	,, ,,
22	Ferro-Alumin		Iron Alum 3 grs	22 22
>>	Iodi cum Acio		(Tr. Iodine 3 mins.)	
	Tannic.	1.	Glycer. Ac. Tan. 12m.	33 33
,,	Iodoformi .	· ·	Iodoform 40 grs. Ethe	er .735 1 oz.
22	Potass. Chlor.			water 1 oz.
27	,, Perma		Pot. Permang. 5 grs.	,, ,,
33	Potassi Brom		Pot. Bromid. 20 grs.	33 33
	Sodæ Benzoat		Sodæ Benz. 20 grs	23 23
,,	,, Salicyla		Sodæ Sal. 20 grs	,, ,,
,,	Sodii Chlorid		Sodii Chlor. 5 grs	22 22
22	Zinci Iodat		Iodat. Zine Caustic	22 23
"			2 mins.	
,,	" Chlor.		Zinc Chlor. 2 grs	,, ,,
	" Sulph.		777 CT 1 1 F	12 22
"	", Sulpho		" Sulph. 5 grs	22 23
"	", surpris		1) and a sur	

LOZENGES OF THE THROAT HOSPITAL PHARMACOPCEIA.

ALL the lozenges of the T.H.P. are made with fruit paste, excepting those containing Acid Carbolic and Altham.

Troch.	Acid.	Ber	izoici		1	gr.	Troch.	Guaiaci		. 5	2 grs.
,,	,,	Car	bolic	i	1	gr.	,,	Kino			2 grs.
>>						grs.		Kramer			
27	Aconi	ti			늘	min.	"	Lactuca	е.		l gr.
,,	Altha	æ			2	grs.	27	Potass.			
	Amm						22	33	Citrati	s :	3 grs.
	Borac						,,	.,,	Tart.A	cid.	3 grs.
37	Catec	hu			2	grs.	,,	Pyrethi	ri.	. :	1 gr.
	Cubel					gr.	>>	Sedativ			

HYPODERMIC INJECTIONS.

	Strength.	Dose.
Aconitine	$1 \text{ gr. in } \frac{1}{2} \text{ oz. water}$.	1 or 2 mins.
Antim. Tart	1 gr. in 24 min. water	5 mins.
Antipyrine & Cocaine		8 to 30 mins.
Apomorphine	2 grs. in 1 drachm .	2 to 3 mins.
	(Argent. Chlor. 0.5 grm.)	
Argent	Soda Hyposulph. 3grms.	2 to 10 mins.
	Aq. Distill. 100 c.c.	
Atropine Sulph	1 gr. in 4 drachms .	2 to 3 mins.
Caffeine	1 gr. in 3 mins	1 to 3 mins.
Chloral Hydrate .	80 grs. in 160 mins	14 to 40 mins.
Cocaine Hydrochlor.	1 gr. in 20 mins	2 to 10 mins.
Codeine	Codein. Phosph. 1 gr. in	2 to 6 mins.
	6 mins.	
Colchicine	¹ ₃₂ gr. in 15 mins	10 to 15 mins.
Conine	1 gr. in 20 mins	
		1 to 6 mins.
	1 gr. in 2 m. (Aq.	
	Camph.)	

Strength.Dose.Homatropine1 gr. in 120 mins.1 to 6 mins.Hydrarg. Bichlor.1 gr. in 160 mins.20 to 49 mins.Hyd. et Sod. Iodid1 gr. in 70 mins.10 mins.Hyoscyamine1 gr. in 2 drachms.1 to 4 mins.Hyoscyamine1 gr. in 2 drachms.1 to 5 mins.Iodi. $\frac{2}{3}$ gr. free Iodine in 1 min.3 to 5 mins.Morphine (B.P.)1 gr. in 10 mins.1 to 5 mins.Physostigmine5 grs. in 2 drachms with3 to 12 mins.S.V.R. and mueilage.1 gr. in 360 mins.3 to 6 mins.Pilocarpine1 gr. in 20 mins. water2 to 6 mins.Quinine, freshly12 grs. in 1 drachm of5 mins.preparedether $\frac{1}{3}$ gr. in 10 mins. $\frac{1}{3}$ gr.Strychnine.1 gr. in 4 drachms water2 to 3 mins.

MODERN REMEDIES.

Name,	Characters, etc.	Solubility, etc.
Acidum Agaricum (syn. : Agaricin)	minute white crys- tals	dose : to 1 gr., in pill.
Acidum Camphori- cum		dose : 10 to 20 grs.
Acidum Cresoti- cum	white needles .	soluble in alcohol, ether and chloroform.
	yellow crystals .	
	in deliquescent crystals	soluble in glycerin.
Agathin	whitish crystals .	dose: 4 to 8 grs., in cachet.
Alumnol	astringent and antiseptic	soluble in water. Dose : 5 to 15 grs.
Amylene Hydras .	colourless liquid .	soluble in water 1 in 8, and alcohol.
Amylene Hydrate Analgene	white powder	soluble in water 1 in 19. dose : 15 grs.

Name.	Characters, etc.	Solubility, etc.
	dose : $\frac{1}{00}$ to $\frac{1}{19}$ gr.	given in pills.
Anthrarobin .	straw-coloured .	with lanoline ; soluble
A start without		in 10% sol. of borax.
Antitoxin or Anti-	A CONTRACTOR OF A CONTRACT OF A CONTRACT. OF A CONTRACT OF A CONTRACT. OF A CONTRACT OF A CONTRACT OF A CONTRACT OF A CONTRACT OF A CONTRACT. OF A CONTRACT OF A CONTRACT. OF A CONTRACT OF A CONTRACT. OF A CONTRACT OF A CONTRACT OF A CONTRACT OF A CONTRACT OF A CONTRACT. OF A CONTRACT OF A CONTRACT OF A CONTRACT. OF A CONTRACT OF A CONTRACT OF A CONTRACT. OF A CONTRACT OF A CONTRACT OF A CONTRACT. OF A CONTRACT OF A CONTRACT OF A CONTRACT. OF A CONTRACT OF A CONTRACT OF A CONTRACT OF A CONTRACT. OF A CONTRACT OF A CONTRACT OF A CONTRACT. OF A CONTRACT OF A CONTRACT OF A CONTRACT. OF A CONTRACT OF A CONTRACT. OF A CONTRACT OF A CONTRACT OF A CONTRACT. OF A CONTRACT OF A CONTRACT OF A CONTRACT. OF A CONTRACTACT. OF A CONTRACTACT	dose 10 to 15 c.c., hypo- dermically.
diphtheritic Se- rum, prepared		definically.
from the blood se-		
rum of the horse		
or other animals		
rendered immune		
to the disease		1 51 70
	in crystals	dose : 5 to 10 c.c.
dalate (syn. :		
Tussol) Antispasmin .	whitish powder .	dose : 1 to 11 grs.
Antithermin .	willeish powder .	given in pills and
		powders.
Antivenene	the blood serum of	
	animals immun-	
	ized from snake	
Anial	venom.	in computer
	green oily liquid . greyish powder .	
chloras	greyish powder .	dose : 10 gr., gradu- ally increased to
		1 gr.
Aseptol (Sozolic	slightly soluble in	in mixture with Pulv.
Acid)	water	Trag. Co.
Asparagin	hard crystals .	soluble in water 1 in 12.
Atropine Oleate .		and the second
	1, Oleic Acid 30, Olive Oil 50.	
Auri Bromidum .		dose: 10 to 10 gr.,
	and the formation of the second	well diluted.
Benzanilide	white scales, in-	dose : 3 to 12 grs.
D M D	soluble in water	
Benzosol(syn.: Ben-		and the second se
zoate of Guaiacol) Betol		given in pills on
		given in pills or powders.
Bromal Hydras .	States and the second	dose : 2 to 5 grs.
	crystalline powder	soluble in water.
	a start and a start of the	

Name.	Characters, etc.	Solubility etc
Bromethyl .	colourless volatile	
-	liquid	
Bromoform	colourless liquid .	slightly soluble in water.
Bromol	in needles	dose : 1 to 2 grs. in pill.
Cannabina		dose : 1 to 5 grs.
Cantharidine .		soluble 1 in 84 chloro-
		form, and 1 in 38
Carbonis Tetrachlo-	a heavy liquid	acetone. used for inhalation.
rid		
Carpaine	alkaloid	dose : $\frac{1}{30}$ to $\frac{1}{6}$ gr.
Caulophyllin .	brown powder .	dose: 1 to 4 grs. in
		pill with Glycer. Trag.
Cerebrin and Myelin	brain and spinal	dose : 5 to 20 mins.
	cord extracts	
Chinolinum		dose : 3 to 10 mins.
	liquid, insoluble in water	
Chloralamide .	dose : 20 to 50 grs.	soluble in water 1 in
		20.
		dose : 5 to 30 mins.
Chloralose	white crystals .	dose: 3 to 10 grs., in cachet.
Citrophen	white powder .	dose: 15 to 30 grs.,
ourstand .		soluble in water.
Cocainæ Nitras .		
N 11 1	pasty compound . white crystals .	dose : 1 to 1 gr.
,, Salicylas Coninæ Hydro-		
bromas	corouriess prisitis	water 1 in 2 nearly.
	whitish - brown	dose : $\frac{1}{2}$ to 2 grs.,
a	powder	soluble in water.
Cornutine	brownish-grey al- kaloid	dose : 🕆 gr. daily.
Cotoin	pale yellow pow- der	dose : $\frac{1}{2}$ to 2 grs.
Cresol Salicylas		dose : 2 to 10 grs.,
(syn. : Cresalol)		insoluble in water,
		readily in spirit.

	(Burnstown etc.)	Selubility of a
Name.	Characters, etc.	Solubility, etc.
Creolin	tar-like, brown,	soluble in alcohol.
	syrupy liquid	
Curare		dose: $\frac{1}{20}$ to $\frac{1}{2}$ gr.
Daturine	dose : $\frac{1}{120}$ to $\frac{1}{60}$ gr.	in solution with Acid
		Sulph. Dil.
Delphina	dose: $\frac{1}{2}$ to $\frac{1}{2}$ gr	in pill with Glyc. Trag.
Diaphtherin	yellow crystals or	antiseptic in 1 or 2 %
	powder	solution.
Diuretin	white powder .	dose : 10 to 15 grs.
Duboisiæ Sulph.	dose : 120 to 1 gr.	
Emetin		dose : 1 to 1 gr. ex-
		pectorant, ½ to 1 gr.
		emetic, in pill or
		solution.
Erythrophlæiæ	dose : 1 to 1 gr.	soluble in water.
Hydroch.		
Euphorin	white crystals .	dose: 3 to 6 grs.
Europhen	yellow powder .	
	The All And And All All	soluble in oil and
		alcohol.
Exalgin	dose : 2 to 6 grs.	soluble in water 1 in 60.
Ferratin (syn. : Ferri		tonic properties.
Albuminous Ac.)		
Ferripyrin	orange - coloured	soluble in water.
	powder	
Fluorescein (syn. :		
Resorcin Phtha-		
lein)	-	
	colourless crystals	dose: 1 to 4 grs., solu-
		ble in water.
Fuchsine (syn. :	dose : $\frac{1}{2}$ to 4 grs.	in pill with Glycer.
Rosaniline)	2 0 0	Trag.
Gallacetophenone.	yellowish - brown	
	powder or nee-	water, alcohol, and
	dles	glycerin.
Gallobromal .	whitish crystals	dose: 5 to 15 grs.,
		soluble in water 1
		in 10.
Guaiacol .	colourless liquid .	
		liver oil, alcohol, or
		water.

Name:	Characters, etc.	Solubility, etc.
Helenin Hydracetin	colourless needles a white powder .	dose : { gr. soluble in water 1 in 50, given in pill.
Hydrargyri Carbo- las	dose: $\frac{1}{2}$ to $\frac{1}{2}$ gr	in pill, with Ext. Glyc. and coated with tolu.
Hydrargyri Cyan- dum	dose: $\frac{1}{20}$ to $\frac{1}{4}$ gr.	soluble in water 1 in 8.
Hydrargyri Salicy- las	dose : 1 gr. daily	soluble in water with 5% of Sod. chloride.
Hydrargyri Succin- imas	contains 50% of mercury.	
Hydroquinone .	dose: $\frac{1}{2}$ to 5 grs.	soluble in water 1 in 20.
Hydroxylamine . Hyoscine Hydro-		
brom.		pill or solution.
Hypnal Hypnone	dose: 15 grs colourless liquid, in capsules.	in cachet or water. dose : 3 to 5 mins.
Ichthyol	dose: 4 to 20 min.	in capsules or mixture. Sodium compound used for pills.
Iodine Trichloride		supplied in sealed tubes.
Iodol	dose: 1 to 3 grs.	soluble in glycerin 1 in 34. Pills with Ext. Glycyr.
Iodophenin	dark brown pow- der	soluble in alcohol, in- soluble in water.
Iodopyrin		soluble in water.
Kairin	white powder .	dose : 10 to 20 grs., in pills or cachets.
Lactophenin .	white crystals .	dose: 5-15 grs., solu- ble in water 1 in 330.
Listerine	antiseptic prepara- tion said to con- tain Thyme, Eu- calyptus, Bap- tisia, Gaultheria and Mentha Ar- vensis, with Ben- zoboracie Acid.	for internal or ex- ternal use.

Name.	Characters, etc.	Solubility, etc.
Lipanin	straw-coloured oil dose : 3i. to 3iii.	substitute for cod-liver oil.
Loretin(syn.: Iodo- oxyquinoline)		application for wounds.
Losophan	greyish crystalline powder	soluble in alcohol and chloroform.
Lycetol .	-	dose: 4 to 10 grs.
	light red crystals	dose: 5 to 15 grs.
Lysol		antiseptic.
Malakine	light yellow nee- dles, soluble in water	
Mallein	** .* .*	
Megranin .	double citrate of antipyrine and caffeine.	
Menispermin .		dose : 1 to 5 grs., in pills, with Glycer. Trag.
Menyanthes (Bog- bean)		infusion and extract.
	white crystals .	dose: 2 to 8 grs., in cachets or pills.
Methacetin	white scaly crys- tals	dose : 2 to 6 grs., in cachet, soluble in water 1 in 260.
Methylal	dose : 15 to 30 min., in mixture or ointment	soluble in water.
Methylene Bichlo- ride		as inhalation.
	bronze green crys- tals	dose: 1 to 4 grs.
Mollin	white ointment base.	
Muscarinæ Nitras Myricin	dose : $\frac{1}{2}$ to $\frac{1}{3}$ gr dose : 2 to 5 grs.	hypodermically. in pill with Glycer. Trag.
Naphthalene .	dose : 2 to 15 grs.	in cachets or pills.

Name.	Characters, etc.	Solubility, etc.
Naphthalene Tetra- chloride	dose: 3 to 12 grs.	in cachets or pills.
	shining needles .	dose: 2 to 15 grs. in cachets.
Narceina Neurodin Nosophene Orchitic Fluid .	silky crystals . colourless crystals yellow powder . prepared from the testes of animals	dose : $\frac{1}{8}$ $-\frac{1}{2}$ gr., in pill. dose : 5 to 15 grs. used as an insufflation. dose : 15 mins., hy- podermically, 30 mins. by mouth.
Orexine	whitish powder .	dose: 3 grs., in pills coated.
Oxynaphthoic Acid Oxysparteina . Pancreatinum . Papaverina Paracotoin Paraldehyde .	white needles . white crystals . yellowish powder alkaloid laminar crystals . colourless	in ointment or collodion dose : $\frac{1}{2}$ to $1\frac{1}{2}$ grs. dose : 2 to 4 grs. dose : $\frac{1}{12}$ to $\frac{1}{3}$ gr. dose : $1\frac{1}{2}$ to 3 grs. dose : $\frac{1}{2}$ to 1 dr., in mixture with brandy or water. Soluble
	dose : 3 to 6 grs. white powder .	in water 1 in 12. syrupy liquid. dose : 8 to 20 grs., in cachets or mixture, with P. Trag. Co.
Phenocoll Hydro- chlor.	dose : 7 to 15 grs.	in solution or cachet.
	a mixture of Car- bolic, Salicylic, and Benzoic Acids dissolved in Lactic Acid	antiseptic, soluble in water.
Picrotoxin Pixol	white needles . pine - wood tar treated with soap and caustic pot- ash	dose : 100 to 30 gr. soluble in water.
Piperazine Prunin Pyoktanin (syn. : Methyl-Violet)	dose : 4 to 10 grs. green crystalline powder	soluble in water 1 in 4. dose : 1 to 5 grs.

Name. Pyridine	Characters, etc. colourless liquid .	Solubility, etc. dose: 5 to 10 mins.
Tynune	colouriess inquia.	daily.
Rubidii Bromidum	white crystals .	dose : 5 to 30 grs., sol- uble in water 1 in 1.
Rumicin Sal. Alembroth (double chloride of mercury and ammonia)	dose : 1 to 4 grs	in pill with Glyc. Trag. powerful antiseptic.
Salacetol	shining crystals .	dose: 10 to 30 grs., in cachet or suspended.
Salicylamide .	small white crys- tals	dose: 2 to 6 grs., in cachet, soluble in water 1 in 250
Salipyrin	dose : 15 to 30 grs.	in cachets.
Salithymol	white crystalline powder	soluble in alcohol and ether.
Salocoll	white silky crys- tals	dose : 10 to 30 grs.
Salophen	white powder .	slightly soluble in water. Dose: 10 to 15 grs.
Sanguinarin	brown resinoid powder	
Scopolamine Hy- drobromate		used in solution for ophthalmic purposes. Strength, 1 or 2 per 1,000.
Sodii-di-thio-Sali- cylas (syn. : Di- thion)	greyish-powder	dose: 3 grs., soluble in water 1 in 1.
Sodii Taurocholas. Sodii Telluras	2 to 6 grs. in pill 1 to 2 gr. in pill	
	liquid pale reddish-brown mass	
Sparteinæ Sulph.	colourless crystals	
	extract prepared from testicles of animals	4 co 1 8 m m Paul
Stilligin	brown powder .	dose: 1 to 3 grs.

Name.	Chanastana eta	Relahilita etc
Stypticin (Cotar-	Characters, etc.	Solubility, etc.
ninehydrochlor.)		10% sol. for injection. Internally, 4 gr.
Sub-Gallate of Bis-	yellow insoluble	internally, To gr.
muth (syn. : Der-	powder	
matol)		
	greenish - yellow powder	antiseptic.
Sulphonal	dose: 15 to 40 grs.	in cachets or suspended with mucilage.
Supra-renal Extract	prepared from su-	dose : in extract, gr. i.,
	pra-renal bodies	
Tannigen	powder, in-	dose: 3 to 8 grs., in cachet.
Tatronal	soluble	in cachets.
	dose : 10 to 20 grs. white granular	dose : 3 to 8 grs.
inamite	crystals	1036. 0 to 0 gis.
Thermodin	colourless crystals	dose : 5 to 15 grs.
Thiol	1 01 10	in pill.
Thyroid Extract .	prepared from the fresh thyroid glands of the sheep	tablets containing 4 grs. of extract, or gly- cerin extract. Dose : 4 m. to 3i.
Tolypyrin		dose: 5 to 20 grs., soluble in water 1 in 10.
Tolysal	small white crystals	dose : 5 to 20 grs.
Trimethylamine .	dose : 20 to 60 min.	
Trimethylamine Hydrochlor.	dose: 2 to 3 grs.	in pill, with Althæa P. and Glycer. Trag. varnished.
Trichlorophenol .		strong antiseptic.
Trional	dose: 10 to 15 grs.	in cachets.
Tribromophenol	greenish - yellow	dose : 5 to 20 grs.
Bismuth	powder, in-	the second s
	soluble	for ortomal upo
And the second	black viscid body	for external use.
And a second	dose : 15 to 45 grs.	dose : 10 to 60 grs.,
Urethane	colourless crystals	soluble in water

TABLE

SHOWING PROPORTIONS OF THE ACTIVE INGREDIENTS IN SOME OF THE MORE POWERFUL PREPARATIONS OF THE BRITISH PHARMACOPCEIA.

Antimony in Pil. Hydrarg. Subchlor. Co.		1 in 5
in Puly Antimonialia	•	1 in 9
,, in Pulv. Antimonialis .	•	1 m in 1 or
,, in Vin. Antimoniale	•	1 gr. m § 02.
Arsenious Acid in Liq. Arsenic . ., in ., ., Hydro.	•	1 in 100.
,, ,, III ,, ,, Hydro.	•	1 in 100.
Atropine in Liq. Atropine	•	1 in 100.
Atropine in Liq. Atropine		1 in 100,
,, in Ung. Atropine.		1 gr. in 3i.
Defradouna Root in Lin. Defradon		1 111 1.
,, Leaves in Tr. ,, .		1 in 20.
Cantharides in Acetum		1 in 10.
Cantharides in Acetum ,, in Charta Epispast		1 in 8.
,, in Emplast. Calefac.		1 in 24.
,, in ,, Cantharidis. ,, in Liq. Epispastic		1 in 3.
,, in Liq. Epispastic		1 in 21.
,, in Tr. Cantharides		1 in 88.
" in Ung. "		1 in 8.
Chloroform in Lin. Chlorof		1 vol. in 2.
,, in Spiritus Chlorof		1 vol. in 20.
,, in Tinet. Chlorof. Co.		1 vol. in 10.
Digitalis in Infus. Digitalis .		3 grs. in 1 oz.
in Tinet.		1 in 8.
Onium in Confect Onii		1 in 40.
,, in Tinet. ,,		1 in 10.
,, in Enema ,,		
, in Extract. ,,		15 m. in 1 oz.
" in Extract. "		2 in 1.
,, in ,, ,, Liq ,, in Linim. ,,		1 in 20.
		1 in 2.
,, in Pil. Ipec. c. Scillæ		
" in " Plumbi c. Opio		
" in " Saponis Co		1 in 5.

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Opium in Pulv. Cretæ Aromat. c. Opio .	1 in 40.
	1 in 10.
,, in ,, Kino. Co	1 in 20.
· • • •	1 in 10.
	$1 \text{ gr. in } \frac{1}{2} \text{ oz.}$
	33 grs. in 1 oz.
,, in ,, ,, Ammon	1 gr. in 96.
,, in Troch. Opii	1 gr. in each loz.
,, in Vin. ,,	1 in 20.
Morphine Acet. in Liq. Morph. Acet	1 in 100.
,, Hydroch. in Liq. Morph. Hydroc.	1 in 100.
,, in Troch. Morph	and gr. in each.
,, in ,, ,, et Ipec.	1 gr. in each.
Mercury in Hydrarg. c. Cretâ	1 in 3.
,, in Liq. Hydr. Nit. Ac	
,, in ,, ,, Perchlor	1 gr. in 1 oz.
,, in Lotio Hydr. Flav	9 grs. in 5 ozs.
,, in ,, ,, Nig	
,, in Pil. ,,	1 in 3.
,, in ,, ,, Subchlor. Co	1 in 5.

FORMULÆ FOR UNOFFICINAL TINCTURES.

	Strength.	Dose.
Tr. Aconiti Ferocis ,, Aconiti Heterophylli. ,, Agarici Alb ,, Alstoniæ Constrictæ . ,, Alstoniæ Scholaris . ,, Anacardii Occident . ,, Anthoxanthi	1 in 8 ,, . 1 in 10 proof sp. 1 in 10 ,, 1 in 10 ,, 1 in 10 ,, 1 in 10 rect. sp	10 to 60 min.
" Apis Mellificæ	Posterior halves of female bees re- cently killed by chloroform. 1 in 10 rect. sp.	1 min.

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	Strength.	Dose.
Tr. Apocyni	1 in 10 proof sp.	5 to 60 min.
" Asclepias Cornuti .	1 in 10 ,,	5 to 40 min.
A later Transmister	1 in 10 "	5 to 40 min.
Analonian Trabanam	1 in 10 ,,	5 to 40 min.
Poldo	2 in 10 rect. sp	10 to 20 min.
Canaiai (Turm harl)*	1 in 3 rect. sp	outward use.
Coondi Indiai	1 in 8 rect. sp	1 to 2 min.
" Cocculi Indici		10 to 30 min.
,, Colchici Flor	fresh flowers, 1 lb.	10 10 50 11111.
D. D. ford	rect. sp. 12 oz.	5 to 15 min
", Droseræ Rotund	1 in 10 proof sp	5 to 15 min.
"Gossypii rad."	1 in 4 proof sp	60 min.
"Guaranæ	1 in 4 ,,	30 to 60 min.
,, Ignatii	1 in 10 rect. sp	3 to 20 min.
,, Kavæ Kavæ*	1 in 2 ,,	30 to 60 min.
,, Koromiko	2 in 10 proof sp.	30 to 120 min.
,, Phosphori	saturated solution	3 to 12 min.
	in absolute alco-	
	hol $(=1 \text{ in } 550)$	
" Phosphori Æther	saturated solution	1 to 4 min.
	in rectified ether	
	.730 (=1 in 200)	
,, Pulsatillæ	1 in 10 proof sp.	1 to 5 min.
" Quebracho	2 in 10 ',	30 to 60 min.
, Quillaiæ	2 in 10 ,,	emulsifying
,,		agent.
,, Rhus Toxicodend	1 in 10 ,,	1 to 5 min.
, Rumicis	1 in 10 ,,	1 to 10 min.
Companyin and	1 in 10 rect sn	5 to 20 min.
m.		6 to 15 min.
Till and a lar Triter	2 in 10 most an	2 to 5 min.
", Thujæ (Arbor vitæ).	Ilging fresh tons	2 to 5 mm.
Varbasai	Using fresh tops.	90 to 60 min
	1 in 8 proof sp.	
" Visci Alb	4 in 10 proof sp.	15 to 30 min.
	Using dried mis-	
	tletoe.	and the second second

* Best prepared by percolation.

METRICAL WEIGHTS AND MEASURES.

THE METRE = 1 yard $3\frac{37}{100}$ inches.

It is divided into the deci-	Its multiples might be ex-
metre, or one-tenth of a metre	pressed as DECAMETRE (10
(not used).	metres), HECTOMETRE (100
	metres), KILOMETRE (1,000
The centimetre (c.m.), or one-	metres), and MYRIAMETRE
The centimetre (c.m.), or one- hundredth of a metre $=\frac{39}{100}$ of	(10,000 metres). The only
an inch. Five c.m. = nearly 2	multiple actually used is
inches.	The KILOMETRE (1,000
monos.	metres)=1,0931 yards, or near-
	ly five-eighths of an English
The millimetre (m.m.), or	mile. Eight kilometres corre-
	spond closely to 5 English miles.

THE CUBIC CENTIMETRE,

Often written "c.c." or "c.cm.," is the most frequently used scientific measure for small quantities of fluids. It is equivalent to 16¹/₄ minims. Four c.c. are therefore a little more than 1 fluid drachm.

THE GRAMME

Is the weight of a cubic centimetre of water at 4° C. It is equal to $15\frac{43}{100}$ grains.

The divisions of the gramme The only multiple of the gramme in ordinary use is are : The milligramme = 1000 th The KILOGRAMME (1,000 gramme. It is about equal to grammes) = 2 lbs. 3 oz. 120 grains. the $\frac{1}{n0}$ th of a grain. The terms quintal métrique The decigramme $(\frac{1}{10}$ th gramme) = 11 grains-not gen- (100 kilogrammes) and tonerally used; the centigramme neau métrique (1,000 kilo- $(\frac{1}{100}$ th gramme) = $\frac{1}{2}$ th grain. grammes) are also used in commerce.

It is nearly accurate to reckon that 6 centigrammes = 1 grain; that 4 grammes = 1 drachm (60 grains); that 28 grammes = 1 oz. avoirdupois; and that 453½ grammes = 1 lb. avoirdupois.

THE LITRE,

Which is the standard for fluid measure, is the measure of a cubic decimetre. It is about equal to 14 pints. These divisions and multiples are but rarely met with-

The decilitre (10 litre). | The DECALITRE (10 litres). The centilitre (100 litre). The HECTOLITRE (100 litres).

THE ARE,

The standard for surface measure, is 100 square metres.

only division ever used.

The centiare $\left(\frac{1}{100} \text{ th are}\right)$ is the | The HECTARE (100 ares) = 2 acres 2,280 square yards, and is the usual land measure.

THE STERE,

Which is a cubic metre, is the standard measure for wood. Decistere (10 stere). DECASTERE (10 steres). Are sometimes used.

ENGLISH AND METRICAL WEIGHTS AND MEASURES.

Table of Comparison.

		Grains.	A	. ozs., B.P.	T	roy ozs., P.L.
1 Centigramme	=	0.154				1
1 Decigramme	=	1.543				
1 Gramme	=	15.432				
1 Kilogramme		15432.349	=	35.274	=	32.151
		Fl. drachms.		Fl. ounces.		Pint.
1 Litre	=	281.720	=	35.215	=	1.761

		Grammes.			Litres.
1 Grain	=	0.602	1 Fluid drachm	=	0.0035
1 Av. ounce, B.P.	=	28.349	1 Fluid ounce		0.0284
1 Av. pound, B.P.	=	453.593	1 Pint	=	0.5679
	=	3.888	1 Gallon		4.5434
1 Troy ounce, P.L.	=	31.103			
1 Troy pound, P.L.	=	373.242			

NOTE.-For all practical purposes we may regard-

The centigramme as equal to one-seventh of a grain ;

32	decigramme	,,	$1\frac{1}{2}$ grains;
23	gramme	,,	15 ¹ / ₂ grains ;
,,	kilogramme	,,	{35 ounces Avoirdupois, B.P., or 32 ounces Troy, P.L.;
,,	litre	,,	351 fluid ounces ;
,,	ounce Av., B.P.		28 grammes ;
,,	ounce Troy, P.L.	,,,	31 grammes,

To reduce avoirdupois ounces to grains :---Multiply by 44 and add a cipher to the product.

To convert grains into avoirdupois ounces :---Multiply by 23 and cancel four figures on the right of the product.

To convert French grammes into English grains :-- Multiply by 154 and cancel the last figure of the product.

To convert English grains into French grammes :---Multiply by 65 and cancel three figures on the right of the product.

To convert cubic centimetres into fluid drachms :---Multiply by 28 and cancel two figures on the right of the product.

To convert fluid drachms into cubic centimetres :---Multiply by 35 and cancel the last figure of the product.

The results are not in each case absolutely exact, but these rules are simple, and are usually sufficiently accurate for practical purposes.

WEIGHTS AND MEASURES.

Apothecaries' Weights.

Denomina- tion.	Weight in grains in terms of the Imperial Standard pound, which contains 7,000 such grains.	Denomina- tion.	Weight in grains in terms of the Imperial Standard pound, which contains 7,000 such grains.
Ounces 10 ,, 8 ,, 6 ,, 4 ,, 2 ,, 1 Drachms 4 or $\frac{1}{2}$ oz. Drachms 2 ,, 1 Scruples 2	4,800 grains 3,840 ,, 2,880 ,, 1,920 ,, 960 ,, 480 ,, 240 ,, 120 ,, 60 ,, 40 ,,	Scruple $1\frac{1}{2}$ or $\frac{1}{2}$ drm. Scruple 1 Grains 6 ,, 5 ,, 4 ,, 3 ,, 2 ,, 1 ,, $\frac{1}{2}$	30 grains 20 ,, 10 ,, 6 ,, 5 ,, 4 ,, 3 ,, 2 ,, 1 ,, 05

Apothecaries' Measures.

Denomination.	Containing the following weight of distilled water : Temperature . = 62° Fahr. Barometer = 30 inches. Imperial pound . = 7,000 grains.
A fluid ounce and the multi-	One fluid ounce contains 437.5
ples thereof from 1 to 40 oz.	grains weight, or 100th Im-
Half a fluid ounce	perial gallon
ples thereof from 1 to 16	One fluid drachm equals ¹ / _s th
drachms	fluid ounce
A minim and the multiples) thereof from 1 to 60 minims	One minim equals to the fluid drachm

NOTE.—The Executive authorities have recognized the impossibility of attaining *absolute accuracy*, and have issued tables showing the amount of error in excess and in deficiency which will be tolerated. These will be found in the *London Gazette* of 1882, July 4.

STAINS FOR MICROSCOPIC OBJECTS.

Kleinenberg's Hæmatoxylin.

Hæmatoxylin, 2½ grammes ; crystallized calcium chloride, 20 grammes in 10 c.c. of distilled water ; alum, 3 grammes in 16 c.c. of distilled water ; rectified spirit, 240 c.c. Dissolve the calcium chloride and the alum in their respective quantities of water by the aid of heat ; mix the solutions and immediately dilute with rectified spirit ; after an hour filter and add the hæmatoxylin. This makes a good working solution.

Ammoniated Hæmatoxylin (Squire).

Hæmatoxylin, 15 grammes; ammonium carbonate, 3 grammes; proof spirit, 300 c.c. Place in a large bottle and shake at intervals for three days, leaving the stopper out between the shakings. Allow the solution to evaporate to dryness in an open dish at the temperature of the air, and (substituting the crystalline product thus obtained for hæmatoxylin in the ordinary formula) dissolve in the following mixture :—absolute alcohol, 750 c.c.; glycerin, 750 c.c.; distilled water, 750 c.c.; ammonia alum, 15 grammes; glacial acetic acid, 75 c.c.

Colour Produced by Hamatoxylin.

Hæmatoxylin solutions stain the nuclei violet, and in order to change this into blue it is usual to soak the sections in water taken from the house supply (not distilled water), but as the salkalinity of the water varies in different localities, a better and more uniform result is obtained by using a weak solution of bicarbonate of sodium ($\frac{1}{2}$ grain to the ounce).

Ammonia Picro-carmine.

Carmine, 1 gramme; strong solution of ammonia, 3 c.c.; distilled water, 5 c.c. Dissolve the carmine in the ammonia and twater with a gentle heat, then add saturated aqueous solution tof picric acid, 200 c.c.: heat to boiling and filter.

Picro-Lithium Carmine.

Lithium carmine solution, 100 c.c.; saturated solution of pieric acid, 270 c.c.

ANILINE NUCLEAR STAINS.

There are several aniline dyes which are used for nuclear staining: methylene blue, methyl green, safranine, gentian violet, vesuvine, fuchsine, and Hoffmann's blue. The usual process is to stain in $\frac{1}{4}$ or $\frac{1}{2}$ per cent. aqueous solutions, and wash in methylated spirit.

Contrast Stains.

Very frequently other dyes are used to stain the ground a colour which is a good contrast to that employed for the nuclei. Brown, orange, or pink are used after nuclear blue or green; carmine red is generally counterstained yellow or indigo-blue, and fuchsine red, as in tubercle bacilli, is counterstained with nuclear blue. It is important that the ground stain should be made weaker than the principal stain, so that the whole tissue may be shown without detracting from the nuclei or bacilli, as the case may be.

As examples of specific stains may be mentioned fuchsine, methylene blue, and gentian violet for bacteria; osmic acid for fatty elements; victoria blue and rose bengale for demonstrating elastic fibres; methyl violet, iodine, and safranine for amyloid degeneration.

CELLULOSE REACTIONS.

After the nuclear stains, probably the most important reagents to the worker in botany are those which affect cellulose and its modifications.

Pure cellulose is coloured yellow by iodine, the colour being changed to a blue on the addition of slightly diluted sulphuric acid (about 2 volumes of strong acid to 1 of water), or a strong solution of chloride of zinc.

Chlor-zinc Iodine (Improved Formula).

Zinc chloride solution (S.G. 1.85), 70 c.c.; potassium iodide, 10 grammes; iodine, 0.1 gramme.

The solution can only be used as a reagent, not as a dye. Structures stained with it cannot be mounted in any of the ordinary mounting media, but they can be kept for a short time by mounting them in some of the fluid and ringing the preparation with caoutchouc cement.

Cellulose can be stained permanently by carmine, hæmatoxylin, nigrosine, methylene blue, safranine, and fuchsine.

When picric acid is used with carmine, nigrosine, or Hoffmann's blue, the picric acid dyes the ligneous portion, and the others colour the unlignified structure red, black, and blue respectively. (Squire.)

HENEAGE GIBBE'S DOUBLE STAIN.

Magenta .					•	2 parts.
Methylene Blue	•	•	•	•	•	1 part.
Rub well, and add						

Aniline Oil. Dissolve in Rectified Spirit.	:	•	3 fld. parts. 15 fld. parts.
Then add			
Distilled Water			15 fld. parts.

KOCH'S METHYLENE BLUE STAIN.

Saturated alcoholic solution of Methy-	
lene Blue	1 fld. part.
Solution of Caustic Potash (10 per cent.)	1 fld. part.
Distilled Water	200 fld. parts.

GLYCERIN JELLY MEDIUM.

White French Gelatin	ie		10 parts.
Chloroform Water			q.s.
Glycerin			75 parts.
White of Fresh Egg			5 parts.

MEDIA FOR MOUNTING SECTIONS.

Glycerin.

GLYCERIN alone is very awkward to manipulate for permanent preparations, though for temporary examination of vegetable tissues, when somewhat diluted (two fluid parts to one of distilled water), it is a very satisfactory medium. If, however, it be desired to gain the fullest advantage from the use of glycerin it must be used in a more concentrated form, either alone or with as little water as experience shows to be desirable with the particular class of objects in hand at any time. Each section, after being washed in distilled water to remove any alcohol, should be soaked in glycerin. A ring of Miller's caoutchouc cement is then made in the middle of a clean slide and allowed to dry. Next, place the section in position within the ring, cover it with a drop of glycerin, give another coating to the cement ring, and having gently breathed upon a clean cover-glass, invert it on the object in such a manner as to avoid introducing air-bubbles. The cover will soon be firmly held by the cement, and any superfluous glycerin may afterwards be washed off the slide by a gentle stream of water from a wash-bottle. Finally, carefully brush round the cover another ring of the cement, and, when this is properly set, the process may be repeated with any finishing varnish that may be desired. If the object is to be mounted in glycerin jelly, as much water as possible should be drained away after placing the section in position on the slide, and the jelly, just sufficient of which has been melted, should be dropped on the section, and a cover, previously breathed upon as before, placed over it. The slide is afterwards to be set aside until the jelly becomes firm, when the cover may be ringed with Bell's cement. Other convenient preparations of glycerin, which set at the edges of the cover and thus fix it to the slide, contain gum arabic as an ingredient. Hover's medium contains in addition chloral hydrate or acetate of potash, according as it is to be used with sections stained with carmine or hæmatoxylin, or with aniline colours.

Canada Balsam.

Of resinous media, Canada balsam is at once the type and the best in use. The raw material is not very suitable, however, since it contains a certain amount of oily matter, which prevents it setting satisfactorily. It is therefore desirable to heat it gently in an oven, until it is of such consistence that it becomes brittle when cold. By then dissolving in benzol, or xylol, in the proportion of about 100 grammes to 50 c.c., it is rendered fit for use. If the menstruum be required to evaporate very slowly, xylol should be employed ; but for general purposes the benzol solution will be found preferable. Before these solutions can be applied to the sections, the latter must be dehydrated by means of methylated or absolute alcohol. When the former is employed, the sections must afterwards be "cleared" by immersion in oil of bergamot or oil of cloves, before mounting. After absolute alcohol, however, oil of cedar or xylol will act more satisfactorily. Oil of cloves is very generally used, but it is apt to dissolve out aniline colours and render objects very brittle, if they are left in it very long. As a rule, it is best to leave them in the clearing liquid just long enough to effect the desired purpose (entire removal of alcohol, indicated by the sections appearing perfectly translucent), then remove and mount straightway, by placing upon clean cover-glasses, covering with a drop of the benzol-balsam, and immediately inverting upon a clean slide which has been slightly warmed to remove the film of surface moisture always present upon glass exposed to ordinary temperatures. If any air-bubbles appear, gentle warming and careful manipulation of the cover-glass with a mounted needle will generally remove them. Balsam-mounted objects require no ring of cement to retain the covers in position, but the application of one or two coats of Bell's cement will prevent the cedar-wood oil, used with immersion objectives, dissolving out the balsam at the edge of the covers. (Squire.)

FOREIGN PRESCRIPTIONS.

HINTS TO DISPENSING FRENCH PRESCRIPTIONS.

In dispensing prescriptions written by French practitioners, the assistance of the Codex or French Pharmacopœia is indispensable. A study of this work will give the dispenser an insight into the method of making most of the preparations at present used in French pharmacy.

Many bear the same name in both countries, but vary considerably in strength, a point it is well to note.

The metrical system of weights and measures is always used, and it must be remembered *that liquids*, as well as solids, are *to be weighed*.

In compounding a mixture, the bottle is first tared (small

shot being generally used for this purpose), and the ingredients weighed into it, the conventional order being first the solids, then the liquids, and finally the vehicle. As may be supposed, the quantities ordered often result in a mixture that will not fill any bottle of the usual capacity; it is, therefore, sent out in a bottle that will hold the quantity nearest to it.

The directions are usually written in French. Of the various forms of preparations met with in dispensing liquids, "sirops," "drops," and "mixtures," are perhaps the most common. There are also the "electuaire," "alcoolats," cachets, pills, granules, etc. Under the name "espèces" mixtures of various dried leaves, roots, etc., are frequently ordered for the preparation of "tisanes." The ingredients are cut up small and sent out in packets. Liniments, lotions, oils, suppositories, gargles, and wines are also met with.

Of the forms of administration used in French pharmacy, the following include those which are perhaps least known to the English dispenser.

Alcoolats are preparations which result from the distillation of alcohol over one or more medicinal substances, and may be simple or compound. Sometimes the simple alcoolats are replaced by the "solutions d'essences" in alcohol at 90°, and called "teintures d'essences."

ALCOOLAT DE GARAS.

Aloes .					5 grammes.
Myrrhe					2 grammes.
Girofles					5 grammes.
Muscades					10 grammes.
Canelle de	Cey	lan			20 grammes.
Safran					5 grammes.
Alcool à 80)c			-	5,000 grammes.

Prepared by maceration and distillation.

Alcoolatures are prepared by macerating the fresh leaves, flowers, or flowering tops, etc., of certain plants in alcohol at 90°, in the proportion of 1 to 1, for 10 days; then pressing and filtering. For example—

ALCOOLATURE D'ACONIT.

Feuilles fraîches d'aconit napel cueillies

Alcoolature of Arnica, Belladonna, Bryony, Colchicum, IDigitalis, Stramonium, etc., are prepared in the same manner and strength.

Apozèmes are preparations made similar to the English decoctions.

Cérats have for a base a mixture of wax and oil, and serve as media for various medicinal substances. For example—

CÉRAT DE GALIEN.

Cire Blanche		100 grammes.
Huile d'Amande Douce		400 grammes.
Eau Distillée de Rose .		300 grammes.

CÉRAT LAUDANISÉ.

Laudanum de Sy	denham	(Vin. Opii.	. Co.)	10 grammes.
Cérat de Galien				90 grammes.

CÉRAT À LA ROSE.

Pommade pour les Lèvres.

Cire Blanche			50 grammes.
Huile d'Amande Douce			100 grammes.
Carmin			0.50 centigrms.
Huile Volatile de Rose	1		10 gouttes.

CÉRAT SATURNE.

Cérat de Goulard.

Sous-Acétate de I	Plomb		10	grammes.
Cérat de Galien .			90	grammes.

Crayons Médicamenteux are pencils medicated with nitrate of

silver or tannin, etc. They are moulded into small sticks as directed.

The **Electuaires** are similar preparations to the confections of British pharmacy.

Espèces is the name given to a mixture of leaves or other parts of plants, cut up and mixed, and used for making an infusion. For example—

ESPÈCES CARMINATIVES.

Fruits d'Anis

de Carvi | a.a. . . part. equal.

" de Coriandre

,, de Fenouil

Mêlez.

2.2

Oléosaccharures are prepared by mixing a certain proportion of a volatile oil with sugar by trituration.

OLÉOSACCHARURE D'ANIS.

Huile Vola	tile d'An	is.		1 gramme.
Sucre Blan	ic .			20 grammes.

Pommades are prepared with a base of lard or vaseline, and similar in consistence to ointments.

Potions are preparations which vary largely in composition. They are always prescribed by the medical practitioner like our mixtures, for immediate administration to the patient. They may take the form of a Julep or Looch.

The general directions for the proportions of leaves, flowers, etc., for preparing infusions or decoctions used in potions are, for leaves and flowers, 2 in 100; for barks, woods, 4 in 100. Gumwater for use in potions is prepared in the proportion of 4 in 100.

POTION CORDIALE.

Vin de Banyuls		110 grammes.
Sirop d'Écorce d'Orange An	nère .	40 grammes.
Teinture de Cannelle .		10 grammes.
Mêlez.		

POTION GOMMEUSE.

Gomme Pulvérisée	10 grammes.
Sirop Simple	30 grammes.
Eau Distillée de Fleur d'Oranger	10 grammes.
Eau Distillée	100 grammes.

POTION PECTORALE.

Infusé de Fleurs Po	ectoral	es.		120 grammes.
Sirop de Gomme				30 grammes.
Mêlez.				

Tisanes vary much in composition, and are usually made just when required for the patient, according to the order of the medical practitioner.

TISANE DE BOURRACHE.

Dried Borage Leaves 10 grammes. Boiling Distilled Water . . 1,000 grammes. Infuse for half-an-hour, and strain.

Tisanes of Anis Fruits, Buchu, Coca, Eucalyptus, Jaborandi, Lin Sem. Scabieuse, Thé, Uva Ursi, Valériane, Violette (fleurs), etc., etc., are prepared of the same strength and in the same manner.

GERMAN PRESCRIPTIONS.

IN dispensing prescriptions written by German practitioners, the main fact to be borne in mind is the difference in chemical nomenclature and measurement. The metric system is universally used in Germany as in France, and *all* ingredients must be weighed. As in England, mixtures predominate in German prescribing, but pills, powders, ointments, syrups, and elixirs are also often met with. In dispensing a mixture, the

L

tare of the bottle is first taken, then the various solids and liquids weighed into it.

As in preparing French prescriptions, the chief difficulty to the English dispenser lies in the difference in the nomenclature, and a German pharmacopœia is absolutely necessary. The following list will be found of use, which shows the difference in name of some of the commoner drugs.

For Acetum Saturninum, read Liq. Plumbi Subacet.

- ,, Aqua Amygdalarum Amar., read Aqua Lauro-Cerasi.
- ,, Aqua Phagedenica, read Lotio Hydrargyri Flava.
- ,, Aqua Fontana, read Aqua Pura.
- " Calcaria Usta, read Calx.
- ,, Cortex Chinæ, read Cinchona.
- ,, Chininum read Quinina.
- ", Flores Benzöes, read Acid. Benzoicum.
- ., Flores Cinæ, read Santonica.
- ,, Flores Naphæ, read Flores Aurantii.
- ,, Flores Zinci, read Zinci Oxidum.
- ,, Gutti, read Cambogia.
- "Hydrargyrum Amidato-bichloratum, read Hydrargyrum Ammon.
- ,, Lapis Infernalis, read Argenti Nitras.
- ,, Magisterium Bismuthi, read Bismuthi Subnitras.
- ,, Natro Kali-tartaricum, read Soda Tartarata.
- ,, Nihilum Album, read Zinci Oxidum.
- ,, Pulvis Kurellæ, read Pulv. Glycyrrh. Co.
- ,, Tartarus Depuratus, read Potass. Bitartras.
- " Tartarus Natronatus, read Soda Tartarata.
- .. Tr. Thebaica, read Tr. Opii.

The following preparations are frequently used in Germany :--

ACETUM AROMATICUM

Take of

Ol. Cinnam		.)	
,, Menthæ Pip.			
"Juniper .		. > 1	a.a. 1 part.
,, Rosmarini			
,, Lavandulæ		.)	
" Limonis .		.1:	a.a. 2 parts.
" Caryoph.		.1	
Spt. Vini Rect.			450 parts.

TINCTURA EUONYMI.

Tincture of Euonymus.

Take of

Euonymus Bark, in No. 20 powder 4 ounces. . . 1 pint. Rectified Spirit . .

Moisten the powder with a suitable quantity of the menstruum, and macerate for twenty-four hours; then pack in a percolator, and gradually pour rectified spirit upon it until one pint of tincture is obtained.

Dosc.-10 to 40 minims.

TINCTURA EUPHORBIÆ PILULIFERÆ.

Tincture of Euphorbia.

Take of

Euphorbia, in No. 20 powder . 4 ounces. Proof Spirit . q.s. .

Moisten the powder with a suitable quantity of the menstruum, and macerate for twenty-four hours ; then pack in a percolator, and gradually pour proof spirit upon it until one pint of tincture is obtained.

Dose. -10 to 30 minims.

TINCTURA IODI DECOLORATA.

Decolorized Tincture of Iodine.

Take of

Iodine 250 grains. Rectified Spirit . . . 51 fld. ounces.

Dissolve by the aid of a gentle heat. When cold transfer to a stoppered bottle, and add of

Stronger Solution of Ammonia . 10 fld. drachms.

Keep the mixture in a warm place until decolorized, after which dilute it with

Rectified Spirit . q.s. to produce 1 pint.

TINCTURA PHOSPHORI COMPOSITA.

Compound Tincture of Phosphorus.

Take of

Phosphorus			 12 grains.
Chloroform			21 fld. ounces.

Place in a stoppered bottle, and apply the heat of a waterbath until dissolved. Then add the solution to

Ethylic alcohol . . . $12\frac{1}{2}$ fld. ounces.

Shake well. This tincture should be preserved from the light, in accurately-stoppered bottles.

Each fluid drachm contains one-tenth of a grain of phosphorus. Dose. -3 to 12 minims.

TINCTURA PRUNI VIRGINIANÆ.

Tincture of Wild Cherry.

Take of

UNGUENTUM HYDRARGYRI OLEATI.

Ointment of Oleate of Mercury.

Take of
Oleate of Mercury 1 ounce.
Simple Ointment 1 ounce.Mix without heat.

UNGUENTUM OLEO-RESINÆ CAPSICI.

Ointment of Oleo-Resin of Capsicum.

Take of

Oleo-Resin of Capsicum . . 1 ounce.

Yellow Wax.			1 ounce.
Benzoated Lard			4 ounces.

Melt the wax and lard at a low temperature, add the oleoresin, mix thoroughly, and, if necessary, strain through muslin. Stir until cold.

As a mild counter-irritant, the ointment will bear dilution from three to six times.

VINUM AURANTII DETANNATUM.

Detannated Orange Wine.

1	0	1	0	ot	
-	c.,	-	0	01	

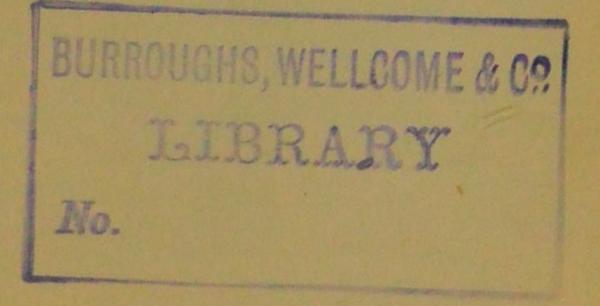
Orange Wine .				1 gallon.
Gelatine, cut small		•		1 ounce.
Macerate for fourteen days,	and	l deca	nt.	

VINUM XERICUM DETANNATUM.

Detannated Sherry.

Take of Sherry				1 gallon.
Gelatine, cut small				1/2 ounce.
Macerate for fourteen days	and	deen	nt	

Macerate for fourteen days, and decant.



SPRAY INHALATIONS

OF THE

THROAT HOSPITAL PHARMACOPCEIA.

Nebul	la Acid. Carbol.		3 grs water 1 oz.
,,	,, Lactic.		30 mins
"	,, Sulphurosi		40 to 60 mins. at a time.
22	" Tannici		5 grs ,, ,,
			(Bicarb. Soda 15 grs.)
	Alkalina .		Borax 15 grs.
"	Alkalina .	•	Acid. Carbol. 4 grs. [" "
			Glycerine 45 mins. J
"	Aluminii Chlor.		Sol. Chlor. of Alum ,, ,,
"			3 mins.
	Aluminii .		Alum 8 grs ,, ,,
22	Calcis		Aq. Calc. q.s.
,,,	Ferri Perchlorid.		Iron Perchlorid. 3 rs. ,, ,,
,,	", Sulph		Iron Sulphate 2 grs. ,, ,,
23	Ferro-Aluminis		Iron Alum 3 grs ,, ,,
>>	Iodi eum Acid.)		(Tr. Iodine 3 mins.)
	Tannic.	•	Glycer. Ac. Tan. 12m. J " "
22	Iodoformi .		Iodoform 40 grs. Ether .735 1 oz.
- 22	Potass. Chlor.		Chlor. Potass 20 grs. water 1 oz.
	,, Permangan		Pot. Permang. 5 grs. ,, ,,
"	Potassi Bromid.		Pot. Bromid. 20 grs. ,, ,,
22	C I D /		Sodæ Benz. 20 grs ,, ,,
180			Sodæ Sal. 20 grs
"	C1 222 C22 2 2 2 2		Sodii Chlor. 5 grs ,, ,,
"	TT . T 1 /		Iodat. Zine Caustic ,, ,,
"	Lind Louise .		2 mins.
	., Chlor		Zine Chlor. 2 grs ,, ,,
,	Challen L		Zine Sulph. 5 grs ,, ,,
33	Calabasanh		Sulph 5 are
,,	", Sulphocaro.	•	», Suipi, ögis », »

LOZENGES OF THE THROAT HOSPITAL PHARMACOPCEIA.

ALL the lozenges of the T.H.P. are made with fruit paste, excepting those containing Acid Carbolic and Althææ.

,, ,, Carbolici 1 gr. ,, Kino	9 are
	2 grs.
,, ,, Tannici . $1\frac{1}{2}$ grs. ,, Krameriæ .	3 grs.
,, Aconiti 1 min. ,, Lactucæ	1 gr.
,, Althææ 2 grs. ,, Potass. Chlor	
,, Ammon. Chlorid. 2 grs. ,, ,, Citratis	3 grs.
"Boracis 3 grs. ", ", Tart. Acio	1.3 grs.
" Catechu 2 grs. " Pyrethri	1 gr.
,, Cubebæ $\frac{1}{2}$ gr. , Sedativi $\frac{1}{10}$ Ex	t. Opii.

HYPODERMIC INJECTIONS.

	Strength.	Dose.
Aconitine	1 gr. in ½ oz. water .	1 or 2 mins.
Antim. Tart	1 gr. in 24 min. water	5 mins.
Antipyrine & Cocaine		8 to 30 mins.
Apomorphine	2 grs. in 1 drachm .	2 to 3 mins.
	(Argent. Chlor. 0.5 grm.)	
Argent	Soda Hyposulph. 3grms.	2 to 10 mins.
	[Aq. Distill. 100 c.c.	
Atropine Sulph	1 gr. in 4 drachms .	2 to 3 mins.
Caffeine		1 to 3 mins.
Chloral Hydrate .	80 grs. in 160 mins	14 to 40 mins.
Cocaine Hydrochlor.	1 gr. in 20 mins	2 to 10 mins.
Codeine	Codein. Phosph. 1 gr. in	2 to 6 mins.
	6 mins.	
Colchicine	1 gr. in 15 mins	10 to 15 mins.
Conine	1 gr. in 20 mins	1 to 3 mins.
Curare	5 grs. in 60 mins	1 to 6 mins.
Ergotine		
	Camph.)	

		Strength.	Dose.
Homatropine .		1 gr. in 120 mins	1 to 6 mins.
Hydrarg. Bichlor.		1 gr. in 160 mins	20 to 49 mins.
Hyd. et Sod. Iodid		1 gr. in 70 mins	10 mins.
Hyoscyamine .		1 gr. in 2 drachms	1 to 4 mins.
Iodi		I gr. free Iodine in 1 min.	3 to 5 mins.
Morphine (B.P.)		1 gr. in 10 mins	1 to 5 mins.
Physostigmine	•	5 grs. in 2 drachms with S.V.R. and mucilage.	3 to 12 mins.
Picrotoxine .		1 gr. in 360 mins.	3 to 6 mins.
Pilocarpine .		1 gr. in 20 mins. water .	2 to 6 mins.
Quinine, freshly prepared		12 grs. in 1 drachm of ether	5 mins.
Sal. Alembroth.		$\frac{1}{3}$ gr. in 10 mins	1 gr.
Strychnine .		1 gr. in 4 drachms water	

MODERN REMEDIES.

Name.	Characters, etc.	Solubility, etc.
Acidum Agaricum		dose : { to 1 gr., in
(syn. : Agaricin)	tals	pill.
Acidum Camphori-	white powder .	dose : 10 to 20 grs.
cum		
Acidum Cresoti-	white needles .	soluble in alcohol, ether
cum		and chloroform.
Acidum Osmicum.	vellow crystals	soluble in water 1 in 50.
	in deliquescent	
	crystals	soluble in glycerin.
Agathin	whitish crystals .	dose: 4 to 8 grs., in
-		cachet.
Alumnol	astringent and	soluble in water. Dose :
	antiseptic	5 to 15 grs.
Amylene Hydras .		soluble in water 1 in 8,
		and alcohol.
Amylene Hydrate		soluble in water 1 in 19.
Analgene	white nowder	dose : 15 grs.
margene	winte powder	ubse . 15 gis.

120

N	Obenestern sta	Solubility, etc.
Name. Anemonin	Characters, etc. dose : $\frac{1}{50}$ to $\frac{1}{12}$ gr.	given in pills.
	straw-coloured .	with lanoline ; soluble
		in 10% sol. of borax.
Antitoxin or Anti-		dose 10 to 15 c.c., hypo-
diphtheritic Se-		dermically.
rum, prepared from the blood se-		
rum of the horse		
or other animals		
rendered immune		
to the disease Antipyrine Amyg-	in ervetals	dose : 5 to 10 c.c.
dalate (syn. :	m crystais	
Tussol)		
	whitish powder .	dose : 1 to 11 grs.
Antithermin .		given in pills and powders.
Antivenene	the blood serum of	powders.
	animals immun-	
	ized from snake	
Anial	green oily liquid .	in capsules.
	greyish powder .	
chloras	· · ·	ally increased to
August 1 (0 1'	1. 1.1. 1.11.	l gr.
Aseptol (Sozolic Acid)	slightly soluble in water	in mixture with Pulv. Trag. Co.
		soluble in water 1 in 12.
Atropine Oleate .	formula : Atropine	
	1, Oleic Acid 30,	
Auri Bromidum	Olive Oil 50.	dose: $\frac{1}{00}$ to $\frac{1}{10}$ gr.,
	brown powdor .	well diluted.
Benzanilide	white scales, in-	dose : 3 to 12 grs.
Benzosol(syn.: Ben-	soluble in water	
zoate of Guaiacol)		And the Party of the second
Betol	and the second second	given in pills or
Promol Haday		powders.
Bromal Hydras . Bromalin	crystalline powder	dose : 2 to 5 grs.
	or Journe Powder	solubie in water.

Name.	Characters, etc.	Solubility, etc.
Bromethyl .	colourless volatile liquid	
Bromoform	colourless liquid .	slightly soluble in water.
Bromol	-	dose : ½ to 2 grs. in pill.
Cannabina Cantharidine .	brown liquid .	dose: 1 to 5 grs. soluble 1 in 84 chloro-
Cantinariume .		form, and 1 in 38 acetone.
Carbonis Tetrachlo- rid	a heavy liquid .	
Carpaine	alkaloid	dose : 1 to 1 gr.
Caulophyllin .	brown powder .	dose: 1 to 4 grs. in pill with Glycer. Trag.
Cerebrin and Myelin	brain and spinal cord extracts	dose : 5 to 20 mins.
Chinolinum	colourless oily liquid, insoluble in water	dose : 3 to 10 mins.
Chloralamide .	dose: 20 to 50 grs.	soluble in water 1 in 20.
	colourless liquid	
Chloralose	white crystals .	dose: 3 to 10 grs., in cachet.
Citrophen	white powder .	dose: 15 to 30 grs., soluble in water.
Cocainæ Nitras .		
" Phenas .	pasty compound .	dose : ‡ to 1 gr.
Coninæ Hydro-	white crystals .	dose : 1 to 1 gr.
bromas	colouriess prisms	dose : $\frac{1}{3}$ gr., soluble in water 1 in 2 nearly.
Convallamarin .	whitish - brown	
	powder	soluble in water.
Cornutine	brownish-grey al- kaloid	dose : 👌 gr. daily.
Cotoin	pale yellow pow- der	dose : $\frac{1}{2}$ to 2 grs.
Cresol Salicylas (syn. : Cresalol)		dose : 2 to 10 grs., insoluble in water, readily in spirit.

Name.	Characters, etc.	Solubility, etc.
Creolin	tar-like, brown, syrupy liquid	soluble in alcohol.
Curare		dose : $\frac{1}{20}$ to $\frac{1}{2}$ gr.
Daturine	dose : $\frac{1}{120}$ to $\frac{1}{60}$ gr.	in solution with Acid
Delphina	dose: $\frac{1}{2}$ to $\frac{1}{2}$ gr	Sulph. Dil. in pill with Glyc. Trag.
Diaphtherin	yellow crystals or powder	antiseptic in 1 or 2 % solution.
	white powder .	dose: 10 to 15 grs.
Duboisiæ Sulph. Emetin	dose : $\frac{1}{120}$ to $\frac{1}{30}$ gr.	dose : 1 to 1 gr. ex-
		pectorant, ½ to 1 gr. emetic, in pill or solution.
Erythrophlæiæ Hydroch.	dose : $\frac{1}{40}$ to $\frac{1}{24}$ gr.	soluble in water.
	white crystals .	dose : 3 to 6 grs.
Europhen	yellow powder .	insoluble in water, soluble in oil and alcohol.
Exalgin Ferratin (syn. : Ferr Albuminous Ac.)	i	soluble in water 1 in 60. tonic properties.
	orange - coloured powder	soluble in water.
Fluorescein (syn. : Resorcin Phtha- lein)	red crystalline	-
	colourless crystals	dose : 1 to 4 grs., solu- ble in water.
Fuchsine (syn. : Rosaniline)	dose : $\frac{1}{2}$ to 4 grs.	in pill with Glycer. Trag.
Gallacetophenone.	yellowish - brown powder or nee- dles	freely soluble in hot water, alcohol, and glycerin.
Gallobromal .	whitish crystals	dose: 5 to 15 grs., soluble in water 1 in 10.
Guaiacol	colourless liquid .	

Name: Helenin Hydracetin	Characters, etc: colourless needles a white powder .	Solubility, etc. dose : ‡ gr. soluble in water 1 in
	dose: $\frac{1}{3}$ to $\frac{1}{2}$ gr	50, given in pill. in pill, with Ext. Glye. and coated with tolu.
Hydrargyri Cyan- dum	dose: $\frac{1}{20}$ to $\frac{1}{4}$ gr.	soluble in water 1 in 8.
Hydrargyri Salicy- las	dose : 1 gr. daily	soluble in water with 5% of Sod. chloride.
Hydrargyri Succin- imas	contains 50% of mercury.	
Hydroquinone .		soluble in water 1 in 20.
Hydroxylamine .	external use .	soluble in water.
Hyoscine Hydro- brom.		dose : 300 to 50 gr., in pill or solution.
	dose : 15 grs colourless liquid, in capsules.	in cachet or water. dose : 3 to 5 mins.
Ichthyol	dose : 4 to 20 min.	in capsules or mixture. Sodium compound used for pills.
Iodine Trichloride	orange needles .	supplied in sealed tubes.
	dose: 1 to 3 grs.	soluble in glycerin 1 in 34. Pills with Ext. Glycyr.
Iodophenin	dark brown pow- der	soluble in alcohol, in- soluble in water.
Iodopyrin	dose : 5 to 20 grs.	soluble in water.
Kairin	white powder .	dose : 10 to 20 grs., in pills or cachets.
Lactophenin .	white crystals .	dose: 5-15 grs., solu- ble in water 1 in 330.
Listerine	antiseptic prepara- tion said to con- tain Thyme, Eu- calyptus, Bap- tisia, Gaultheria and Mentha Ar- vensis, with Ben- zoboracic Acid.	for internal or ex- ternal use.

Name.	Characters, etc.	Solubility, etc.
Lipanin	straw-coloured oil	substitute for cod-liver oil.
Loretin(syn.: Iodo-	dose : 3i. to žiii.	application for wounds.
oxyquinoline)		-11
Losophan	greyish crystalline powder	soluble in alcohol and chloroform.
Lycetol .		dose: 4 to 10 grs.
	light red crystals	dose: 5 to 15 grs.
Lysol	dark - coloured liquid	antiseptic.
Malakine	light yellow nee- dles, soluble in water	dose: 10 to 15 grs., in cachet.
Mallein	diagnostic agent for	
Megranin .	glandersin horses. double citrate of	
Integration .	antipyrine and caffeine.	
Menispermin .		dose : 1 to 5 grs., in pills, with Glycer. Trag.
Menyanthes (Bog- bean)		infusion and extract.
	white crystals .	dose : 2 to 8 grs., in cachets or pills.
Methacetin	white scaly crys- tals	dose : 2 to 6 grs., in cachet, soluble in water 1 in 260.
Methylal	dose : 15 to 30 min., in mixture or ointment	
Methylene Bichlo- ride		as inhalation.
	bronze green crys- tals	dose: 1 to 4 grs.
Mollin	white ointment base.	
Muscarinæ Nitras		hypodermically.
	dose: 2 to 5 grs.	
Naphthalene .	dose: 2 to 15 grs.	in cachets or pills.

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Name.	Characters, etc.	Solubility, etc.
Naphthalene Tetra- chloride	dose: 3 to 12 grs.	in cachets or pills.
β Naphthol	shining needles .	dose: 2 to 15 grs. in cachets.
Narceina Neurodin	silky crystals . colourless crystals	dose : $\frac{1}{2} - \frac{1}{2}$ gr., in pill. dose : 5 to 15 grs.
Nosophene	yellow powder .	used as an insufflation.
Orchitic Fluid .	prepared from the testes of animals	dose: 15 mins., hy- podermically, 30 mins. by mouth.
Orexine	whitish powder .	dose: 3 grs., in pills coated.
Oxynaphthoic Acid		in ointment or collodion
Oxysparteina .	white crystals .	dose : $\frac{1}{2}$ to $1\frac{1}{2}$ grs.
Pancreatinum .	yellowish powder	dose : 2 to 4 grs.
Papaverina	alkaloid	dose: $\frac{1}{12}$ to $\frac{1}{3}$ gr.
Paracotoin Paraldehyde .	laminar crystals . colourless	dose : $1\frac{1}{2}$ to 3 grs. dose : $\frac{1}{2}$ to 1 dr., in
Paraldenyde .		mixture with brandy or water. Soluble in water 1 in 12,
Pelletierine Phenacetin	dose : 3 to 6 grs. white powder .	syrupy liquid. dose: 8 to 20 grs., in cachets or mixture, with P. Trag. Co.
Phenocoll Hydro- chlor.	dose : 7 to 15 grs.	in solution or cachet.
Phenosalyl	a mixture of Car- bolic, Salicylic, and Benzoic Acids dissolved in Lactic Acid	water.
Picrotoxin	white needles .	dose : $\frac{1}{100}$ to $\frac{1}{50}$ gr.
Pixol	pine - wood tar	soluble in water.
	treated with soap and caustic pot- ash	
Piperazine	dose : 4 to 10 grs.	soluble in water 1 in 4.
Prunin		dose : 1 to 5 grs.
Pyoktanin (syn. :	green crystalline	
Methyl-Violet)	powder	

A CONDENSED CHART FOR THE DETECTION OF METALS IN SOLUTION.

GROUP V.	Add to original solu- tion Na ₂ HPO ₄ . White ppt. = Mag- nesium. If no ppt. is obtain- ed in either group Potassium, Sodium or Ammonia are indicated. Potassium. Yellow ppt. with Pt Cl4. White ppt. with Pt Cl4. White ppt. with Pt Cl4. White ppt. with Rt Sodium. No ppt. with above and yellow flame. Ammonia. Heat with KHO, gas evolved. (Nessler's test.)
GROUP IV.	Add to last solution Am ₂ CO ₃ . White Strontium. ppt. Strontium. Dissolve the ppt. in Acetic Acid and add K ₂ Cr O ₄ . Yellow ppt. add H ₂ SO ₄ . Dilute = White ppt. on standing or shak- ing=Strontium. No ppt. add Am ₂ Calcium.
GROUP III.	Add AmCl AmHO (till it smells when shaken). AmHS (a little). Black (ron. Black Cobalt, ppt. (ron. Blue ppt. = Iron. Plum colour ppt. = Cobalt. Yellowish ppt. or none = Nickel. White (Alum. ppt. Zine. To original solution add K4FeCy6. White ppt. = Zine. No ppt. = Alum. Green ppt. = Chro- mium. The AmHS and Am HO must give a green ppt. for Cr. If white with Am HO, Al or Fe is indicated.
GROUP II.	Pass H ₂ S into solution. Pass H ₂ S into solution. Black Copper. Ppt. Bismuth. Bismuth. Lead. Add Sol. Pot. Iodid. to same. If it turns Red = Mercury. Green = Bismuth. Yellow = Lead. Brown = Copper. Yellow = Lead. Brown = Copper. Yellow & Arsenie. Ppt. Cadmium. H ₂ S. Add to same Annon. Sulphyd. Add to same Annon. Sulphyd. Add to same Annon. Sulphyd. Arsenie = dissolves. Tin = dissolves. Cadmium = insoluble. If ppt. is dissolves. Tin = dissolves. Cadmium = insoluble. If ppt. is dissolves. Tin = dissolves. Cadmium = insoluble. If ppt. is dissolves. Tin = dissolves. Cadmium = insoluble. If ppt. with H ₂ S = Stannous Salt.
GROUP I.	Add HCL White Bismuth or White Bismuth or Salt. Silver. Bismuth or Antimony as oxychlo- rates. Add excess HCL ppt. Bismuth dissolves Cr Anti- if mony. If precipitate does not dissolve boil, if dissolved Lead is indicated. If un- changed add ammo- nia. Precipitate dissolves =Silver. Turns black = Mer- cury.

CHART FOR THE DETECTION OF ACIDULOUS RADICALS OF SALTS IN SOLUTION.

DISSOLVE THE SALT IN WATER AND RENDE

DISSOLVE	THE SALT IN WATER	
GROUP VI. H2SO4+FeSO4. Forms a black colouration.	Nitrates.	n. NOs, a sulphate is c acid, but soluble of calcium is also fuich may be dis- talline character. rates. . If the precipi- of ammonia, the hate of iron and a olour indicates a
GROUP V. Fe2Cl6. Precipitates.	Ferrocyanides, Blue. Borates, Yellowish.	ed. Confirm. firm. cid gas). Confirm. acid). Confirm. m. a insoluble in HI. nsoluble in aceti onfirm. Tartrate a being formed, w ium by its cryst c acid, test for cit ery characteristic n dilute solution a crystal of sulp on of a black c
GROUP IV. AgNO ₃ . Precipitates.	Chlorides, White. Tartrates Bromides, Yellove- ish White. Iodides, Yellove. Phosphates , Chromates, Red. Arseniates, Chocolate.	 Apply heat, and notice any odour which may be evolved. Supplifies give off H₂S (sulphuretted hydrogen). Confirm. Sulphites give off SO₂ (sulphurous acid gas). Confirm. Carbonates effervesce and give off CO₂ (carbonic acid gas). Confirm. Cyanides give off the odour of HCy (hydrocyanic acid). Confirm. Cyanides give off the odour of HCy (hydrocyanic acid). Confirm. Cyanides give off the odour of HCy (hydrocyanic acid). Confirm. Should the precipitates produced by this reagent be insoluble in HNO₃, a sulphate Is indicated. Should the precipitate be soluble, pass on to Group III. Should the precipitate produced by this reagent be insoluble in acetic acid, an acid tartrate of calcium by its crystalline character. Confirm. Should the precipitate be soluble in acetic acid, test for citrates. The colour of the precipitate be soluble in acetic acid, test for citrates. The colour of the precipitate be soluble in acetic acid, the precipitate in the indicated. Confirm. Should the precipitate be soluble in acetic acid, an acid tartrate of calcium by its crystalline character. Confirm. Should the precipitate be soluble in acetic acid, test for citrates. The colour of the precipitate be soluble in acetic acid, test for citrates. The colour of the precipitate indicated. Confirm. Tartrate of calcium is also insoluble in acetic acid, an acid tartrate of calcium by its crystalline character. The colour of the precipitate be soluble in acetic acid, test for citrates. The colour of the precipitate indicated. Confirm. A yellowish precipitate indicates a borate. Confirm. A yellowish precipitate indicates a borate. Should the previous reagents give no precipitate, add a crystal of suphate of iron and a few drops of strong suphuric acid. The formation of a black colour indicates a
GROUP III. CaCl ₂ . Precipitates.	Oxalates, White. Tartrates ,, Citrates ,, Phosphates ,,	and notice any odo tes give off H ₂ S (sub es give off SO ₂ (sub ates effervesce and g ates effervesce and g se give off the odour precipitates produce precipitates produce the precipitates produce for the precipitates of a chloride the precipi of a chloride is indi- previous reagents g previous reagents g previous reagents g of strong sulphu
GROUP II. BaOlo. Precipitates.	Oxalates, White. Tartrates ", Citrates ", Sulphates ", Phosphates ,,	
GROUP I. H ₃ SO ₄ . Decomposes.	Sulphites. Sulphides. Carbonates. Cyanides. Acctates.	Group I. H ₂ SO ₄ Group II. BaCl ₂ Group III. BaCl ₂ Group IV. AgNO ₃ Group V. Fe ₂ Cl ₆ Group VI. H ₂ SO ₄

STANDARD SPECIFIC GRAVITY OF WINES, ETC.

				er cent.
			absolu	te alcohol.
Old Port	S.G.	.998	containing	20.29
New Port .	,,	1.003	,,	17.30
Common Port .	,,	.999	"	20.08
Sherry (good) .	,,	.987	.,	16.62
,, (common)	>>	•996	,,	17 50
Claret (ordinaire)	39	.992	"	6.99
" (St. Julien)	,,	.995	17	9.84
Brandy (good) .	33	.934	,,	46.38
Rum		.944	**	41.28
Gin	"	.964	,,	31.73

To find the volume percentage of water in a spirit, multiply the weight per cent. of water by the S.G. of the spirit

MILK ANALYSIS.

THERE are several methods in use for the analysis of milk, but as to which is the best there is a difference of opinion. It may be useful, therefore, to roughly sketch for the guidance of those who have had but little analytical experience, the plan usually followed by the majority of chemists.

As a source of nourishment, milk ranks high, and takes a position between the cereal and animal foods. Its yellowishwhite, or white, colour is due to the presence of suspended fatty globules, milk forming a type of a perfect natural emulsion. In composition it contains, besides fat, casein or curd, and milk sugar, an important constituent, which forms the chief substance in solution in the whey.

The ash obtained by careful incineration from fresh cow's milk averages from '62 to '80 per cent.

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The analysis or examination as to the quality of milk is based on the results of the following estimations-

I. Specific gravity.

II. The percentage of total solids.

III. Of the non-fatty solids.

IV. Of the fat, or cream.

V. Of the ash, or mineral matter.

VI. Estimation of chlorine.

There are several processes by which these estimations may be conducted, those we are about to describe being perhaps the least intricate, and require less practice than the others.

Having received our sample, which should be as fresh as possible, and measure not less than half-a-pint, the first operation is to take the specific gravity.

Specific Gravity.—The S.G. must be taken at a temperature of 60° F., so the sample should first be cooled down to 59° F., by placing the vessel which contains it in a freezing mixture. This having been done, fill the S.G. bottle in the proper manner, close it with the stopper, and wipe the outside carefully. Place it in the balance, and weigh, and deducting the weight of the bottle, note the result, which is the weight of the milk. Divide this by the weight of water the bottle will hold at 60° F., and you will have the S.G. of the milk. Another method is with the lactometer, which has a graduated stem showing degrees of gravity above that of water (1,000).

Cream being lighter than the rest of the milk, its absence raises the S.G., and a large quantity of cream would therefore lower the S.G. of a sample. A low S.G. might indicate a milk to be rich in fat, or that water has been added; and it is not till we separate the cream that we are able to form a rough guess if water has been added or not. The S.G. of good cow's milk varies from 1029.3 to 1034.4.

We next proceed to take the total solids.

Total Solids.—This is a very simple matter, and is done by weighing a convenient quantity of the sample, say 200 grains, and placing it in a tared, flat-bottomed platinum or porcelain dish, and by means of the water-bath evaporating to dryness; it is then removed to a water-oven and kept at about 100° F. for three or four hours, till free from moisture. It should be weighed at intervals till a constant weight is obtained. After cooling, note the weight, and subtracting the weight of the dish, you have the total solids, which divided by 2 gives the percentage.

Non-fatty Solids .- This estimation requires great care, and is an important one. The following process is fairly accurate when properly performed. The total solids are taken, and just covered with ether or benzoline. After separating from the dish by means of a knife, cover with a watch-glass, and place in a corner of the water-bath for some time. After cooling, with great care pour off the liquid and pass it through a filter, retaining the filtrate, which must be collected. This operation must be repeated five or six times, until the total solids are quite freed from fat. This having been done, the latter must be dried for one hour to a constant, and weighed. The weight of the dish having been subtracted from this, and the result divided by 2 gives the percentage of the non-fatty solids. Again, by subtracting the non-fatty solids from the total solids, and dividing the remainder by 2, we shall have the percentage of fatty solids.

Percentage of Ash or Mineral Matter.—For this operation, the non-fatty solids must be incinerated over a Bunsen burner, using as little heat as possible. The ash should not be allowed to fuse, but should become quite white before the weight is taken. After cooling, weigh the residue, and the result being divided by 2, will give the percentage of mineral matter. This ash contains chlorides of sodium and potassium, phosphates of calcium, magnesium, and potassium, with a small quantity of sulphates, and traces of carbonates. The following shows the constituents of the ash of milk of several cows—

Percentage of total Ash			0.72	
Potash			19.53	
Soda		1	3.30	
Lime			24.48	-
Magnesia		1. 1. 7	4.76	
Phosphoric Anhydride			32.49	
Sulphuric Anhydride		1 100.	0.95	
Chlorine			14.52	
		Total	100.00	

Estimation of Chlorine is arrived at by heating the ash with warmed distilled water, adding to it a few drops of solution of potass chromate. A burette having been filled with the standard solution of nitrate of silver, the chlorine in the ash solution is estimated volumetrically. Directly the red chromate of silver is precipitated, the estimation is complete, and the number of grains of nitrate of silver used noted. The result is arrived at as follows—

1 grain Standard Silver Nitrate = '00355 Chlorine.

. . Multiply number of grains used by 00355; result = Chlorine in grains, which being divided by 2 = Chlorine per cent.

The milk sugar, if thought necessary, may be estimated by the polariscope, by placing 50 c.c. of milk into a 100 c.c. flask, and adding a sufficient quantity of solution of basic acetate of lead to give a bright filtrate. The whole is then made up to 100 c.c. with distilled water and filtered. The angle of rotation is observed through a 200 m.m. tube filled with the clear solution, and the percentage of sugar estimated by taking 59.3° as the specific rotation of milk sugar. It may also be estimated gravimetrically.

There are a variety of other methods used in the analysis of milk, but it is practically from a consideration of the points we have mentioned that the judgment on a sample is formed.

Having the results before us, we have to deduce from them our opinion as to the quality of the sample. First from the S.G., as before stated, we may form a rough guess if water has been added to the milk or not. If the S.G. is below 1029'9, we should look upon it with suspicion. The percentage of cream will help to corroborate this. A portion of the sample should be placed in a large test-tube and allowed to stand for four or five hours, until the cream rises to the top ; the percentage may then be estimated by measurement, and should not be less than 11 per cent.

Next we have the non-fatty solids, which are important factors, and vary very slightly in good milk. If they are less than 8.60 per cent., the milk has been watered or skimmed. A skimmed milk could be readily detected by the absence of fat, while a watered milk would still contain a certain amount.

If the ash exceeds '8 per cent. it is likely some other adulterant has been added, such as borax, salt, carbonate of soda, salicylic acid, or glycerin. The three former are the articles most commonly met with. The percentage of fat should not be less than 3.80. Salt is used as an adulterant to cover the addition of water, and its presence is detected by the high amount of chlorine, which may be estimated by the volumetric process already described. If more than '14 is present, it is fairly conclusive that salt has been added.

Carbonate of soda is indicated in the high ash, which also effervesces on the addition of a drop or two of acid. This test, taken together with the high percentage of ash, would show that an alkaline carbonate had been added, as the ash of pure cow's milk should not give this reaction. The presence of salicylic acid, which is occasionally added as a preservative, may be easily determined by the colour test, with ferric chloride. If salicylic acid is present it turns a deep purple.

Glycerin may be detected by first coagulating the casein with rennet or dilute acids, and removing all traces of fat by ether, and evaporating the whey. The residue may then be treated with a mixture of ether and alcohol, which will take up the glycerin. Carefully evaporate the ether and alcohol, and the glycerin, if present, will remain, and may be proved by confirmatory test.

As no arbitrary standard can be fixed for the composition of cow's milk, the judgment must necessarily depend on experience, and a careful comparison with the proportions of the most important constituents in genuine samples.

It is the custom of most analysts to fix certain limits of quality based on the amount of ash, non-fatty solids, and fat, and judge those samples falling below their limits accordingly.

The following, extracted from a table compiled by Bell, will give an idea of the variation in samples, and be also useful for comparison—

S.G.		Per cent. Solids. Non-fatty. Fat.			I	Per cen Ash.		Per cent. by vol. of cream.	
1033.60	=	10.02	=	4.31	==	.75	=	8.00	
1028.35	=	10.42	=	5.66	=	.77	=	19.00	
1027.68	=	9.12	=	4.55	=	.79	=	6.20	
1031.53		9.23	=	6.22	=	.72	=	16.00	
1026.70	=	8.20	=	4.66	=	•65	=	14.00	

Works for reference :- Wanklyn's Milk Analysis; Bell's Analysis and Adulteration of Foods, Part II., etc.

BLOXAM'S COLOUR-TESTS FOR ALKALOIDS.

THE following is a characteristic and delicate test for identifying strychnine.

The alkaloid on a glass slide or a porcelain crucible lid is dissolved in a drop of dilute nitric acid, and gently heated ; to the warm solution a very minute quantity of powdered potassium chlorate is added, which will produce an intense scarlet colour ; one or two drops of ammonia will change this to a brownish colour, giving a brownish precipitate ; the mixture is then evaporated to dryness, when it leaves a dark green residue, dissolved by a drop of water to a green solution, changed to orange-brown by potash, and becoming green again with nitric acid ; these last changes of colour may be repeated any number of times.

The green colouring-matter is evidently a product of the action of ammonia upon the scarlet body ; for if this be bleached by heating or by excess of chlorate before the ammonia is added, the residue on evaporation is light brown, and yields with potash a bright yellow solution which is nearly bleached by nitric acid.

No other of the commonly occurring alkaloids could be mistaken for strychnine by the above test, but each of them exhibits some peculiarity when treated in the same way, which would give a clue to its identity. This will be seen in the subjoined table (see next page), in which the tests are supposed to be applied to the same portion of the alkaloid as described.

A more convenient re-agent can be made by mixing a weak solution of potassium chlorate with enough strong hydrochloric acid to turn it bright yellow. This euchlorine solution is added by degrees to the solution of the alkaloid in HCl, which is boiled after each addition.

Strychnine gives a fine red colour, bleached by excess and returning when boiled.

Brucine gives a violet colour in the cold, which is bleached by excess and restored by boiling.

Narcotine gives a bright yellow colour in the cold, which becomes pink on boiling and adding more of the euchlorine solution.

TABLE OF COLOUR-TESTS.

	HN03.	3.	KClO ₃ .	NH ₈ .	Residue.	KHO.	HNO3.
	Cold.	Heated.					
Strychnine	1	Pink	Scarlet .	Brownish precipitate Green		Urange .	Green.
Brucine .	{ Scarlet . }	Yellow	Yellow .	Bright yellow	Green.	Dark brown	Dark brown Green; brown.
Narcotine .	1	Bright yellow Yellow	Yellow .	Dark brown	Dark brown	Dark brown	Reddish-yellow.
Morphine .	Orange-red .	.Yellow .	Yellow .	Red brown	Light brown	Light brown Light brown Light brown.	Light brown.
Quinine .	1	1	I	Green precipitate .	Light brown	Light brown Light brown Light brown.	Light brown.
Cinchonine	1	1	1	White precipitate .	Light brown	1	1
Caffeine .	T	1	Pale yellow	Bleached	Red; yellow	1	1
		and the second se	二、二、二、二、二、二、二、二、二、二、二、二、二、二、二、二、二、二、二、			and the state of t	

Quinine gives a faint yellowish-pink on boiling. After colouring the solution, weak ammonia is gradually added. Strychnine gives a yellow colour unchanged by boiling. Brucine gives the same.

Narcotine gives a dingy green, becoming brown on boiling. Quinine gives a bright green, becoming yellow on boiling.

Morphine gives no reaction; but if, after boiling with the euchlorine solution, the liquid be cooled, and allowed to remain in contact with zinc for a minute or two, it will give the characteristic pink reaction with ammonia.

PHARMACEUTICAL ANALYSIS.

SOME SPECIAL TESTS FOR DRUGS AND CHEMICALS.

It is highly essential that every pharmacist should know how to test the articles he deals in, as to their purity and freedom from adulterants. It is, further, important that he should not only have the knowledge, but also put it into actual and regular practice. The public now look to the skill and training of the educated chemist for protection from fraud, and expect to find the drugs they purchase from him pure and good. The duty, therefore, lies with every pharmacist to satisfy himself that the drugs and chemicals he uses are free from impurity, and justify the trust reposed in him. The processes included in the following tests have been rendered as simple as possible, so that they may be conducted at any dispensing counter.

Acetum. — For excess of sulphuric acid, add 1 grain of chloride of barium to 1 fluid ounce of vinegar, and filter. The filtrate should not give any further precipitate with chloride of barium. If copper, iron, or lead are present, a black coloration will be found if the vinegar be first neutralized with ammonia, and sulphydrate of ammonium then added. Good malt vinegar should dissolve exactly 18 grains of carbonate of magnesium, and no more. Arsenic.—To test for the presence of antimony, add dilute hydrochloric acid and pass H_2S through the solution. If present, an orange precipitate will be thrown out. Heavy mineral bodies, such as baryta or lead, may be detected by igniting a portion in a capsule. Arsenious acid, being volatile, leaves the impurities behind.

Alum.-Alum is sometimes contaminated with iron. To determine this, add excess of caustic potash to a boiling solution. If a reddish-brown precipitate is formed, iron is present. As a confirmatory test, add to a solution a little nitric acid, and boil until the excess of acid is driven off. To a portion of the liquid add sulphocyanide of potassium, and to another portion ferrocyanide of potassium. The former will turn red in colour, and in the latter a blue precipitate will be found if iron be present. Commercial sulphate of alum may be tested for sulphate of potash by adding carbonate of ammonia in excess, filtering, concentrating the filtrate, evaporating to dryness, and heating to redness in a platinum crucible. If alkali be present in the sample a residue will be left in the crucible.

Ammoniacum.—Gum ammoniacum turns a blood-red colour on the addition of hypochlorite of lime or soda, and may thus be distinguished from any other resin or gum resin.

Citric Acid. — Add lime-water to a cold dilute solution, sufficient to render it slightly alkaline. If a white precipitate at once falls oxalic acid is present. The presence of tartaric acid may be proved by adding a solution of sulphate of potash. If present, a white crystalline precipitate will be formed.

Chlorate of Potash.—To a solution add nitrate of silver. A white precipitate will be thrown down if any alkaline chloride be present.

Carbonate of Magnesia.—Should be entirely soluble in hydrochloric acid. Shake up a small quantity with water, filter, and concentrate the filtrate. Add a few drops of hydrochloric acid and chloride of barium solution. If a white precipitate is formed, alkaline sulphates are present.

Carmine.—Shake up for some time a weighed quantity with ammonia, wash the precipitate and dry over a water-bath. The impurities will remain.

Cream of Tartar. --Cream of tartar is sometimes contaminated with lime. To test for this, dissolve a small quantity in dilute hydrochloric acid: if effervescence is caused, add ammonia till the solution becomes slightly alkaline; next add oxalate of ammonia, allow to stand for eight hours, filter, wash the precipitate (if any), and dry, then ignite, and when cool weigh the residue as lime. A ready test is to dissolve 84 grains of bicarbonate of soda in 2 ounces of water, and add 204 grains of the cream of tartar; the mixture, after heating, should be neutral to litmus paper. If the sample is of superior quality the mixture will be acid. For adulteration with barium, dissolve 20 grains of cream of tartar in 1 ounce of distilled water with heat; if any remains undissolved, or a precipitate is thrown down on adding a little sulphuric acid, the presence of barium is indicated.

Chloroform.—Chloroform should have a specific gravity of 1.49. It should not bleach nor redden litmus paper. On the addition of nitrate of silver it should not become turbid or give a white precipitate. Solution of caustic potash should not turn it brown on heating, and it should mix with ether or alcohol. It should not be coloured after shaking up with sulphuric acid, and should leave no residue or unpleasant odour after evaporation.

Ether.—The specific gravity of ether should not exceed 0.720. It should be neutral to litmus paper. If it forms an opaque emulsion on shaking up with oil of copaiba, it indicates the presence of water and alcohol. Pure ether should remain clear.

Gums.—Acacia and senegal, with solution of sulphate of iron, give a yellow precipitate. Dextrine gives no precipitate. The former gums give, with subacetate of lead, a white curdy mass, and with tincture of guaiacum a blue colour. Tragacanth does not change colour on the addition of tincture of guaiacum, and forms a transparent jelly with subacetate of lead.

Glycerin should have a specific gravity about 1.25; should be quite neutral to litmus paper, and its solution should not be affected by nitrate of silver, oxalate of ammonia, or chloride of barium. On the addition of sulphydrate of ammonium, if a black or brown colour be formed, the presence of lead, copper, or iron is indicated. Shaken with an equal volume of sulphuric acid it should be unaffected, or only a very pale straw coloration result, which proves the absence of sugar or dextrine. On heating a small quantity in a platinum dish till the glycerin is driven off, a charred residue will remain if sugar be present, but only a black stain if the glycerin be pure, which burns away without leaving ash when heated to redness. Fehling's method is recommended as the best test for the detection of sugars. It is impossible for this substance to occur in glycerin unless employed as an adulterant, and consequently it is only necessary to look for it in a distilled product. Let 5 c.c. of glycerin be mixed with 50 c.c. of water and 10 drops of hydrochloric acid in a small flask and heated for thirty minutes in a water-bath, and then mix 10 c.c. of the liquid with 2 c.c. of sodium hydrate T. S. (= test solution, U.S.P.), and 1 c.c. of alkaline cupric tartrate T. S. No yellowish-red cloudiness should appear within six hours.

Guaiacum.—Perchloride of mercury solution poured on guaiacum wood and slightly warmed should produce a bluish-green colour. Guaiacum resin turns greenish-blue on the addition of chloride of lime or chloride of soda, and a solution in rectified spirit strikes a clear blue when applied to the inner surface of a raw potato.

Hops.—Exhaust a weighed quantity of hops by repeated macerations with alcohol; wash the residue with alcohol, then carefully dry at a low temperature and weigh. The loss should not be less than from 9 to 12 per cent.; if less, they are deficient in lupulin. To detect if hops have been sulphured, introduce a portion of the sample into a hydrogen apparatus, and pass the gas into a solution of nitro-prusside of sodium. If sulphur is present a purple colour will be formed, which, however, quickly fades away.

Hydrocyanic Acid (Dufla's test).—To determine the amount of actual hydrocyanic acid in a sample, mix some nitrate of silver with a little ammonia, so that the clear liquid may be slightly acid, then pour it into a weighed portion of the sample of hydrocyanic acid as long as any precipitate is found. Collect the precipitate of cyanide of silver on a small filter, previously dried and weighed at 212° F., and wash the precipitate and filter, and dry again at 212° F. and weigh. 133.9 parts of cyanide of silver represent 27 parts of anhydrous hydrocyanic acid.

Honey.—Honey is often adulterated with glucose and artificial flavourings. Mix the sample with an equal quantity of water and add strong spirit, stirring constantly till a permanent turbidity is produced. In honey adulterated with glucose, syrup, or dextrine, a heavy gummy deposit will soon form; with genuine honey but a slight milkiness is produced. Starch and flour are readily detected, as they remain insoluble when the sample is dissolved in cold water or spirit.

Iodide of Potassium .- The chief impurities found in commercial iodide of potassium are iodate, carbonate, and sulphate of potass, chloride of potassium, and sodium, sulphide of potassium, and organic matter containing sulphur. Iodate of potass may be detected by adding a small quantity of tartaric or hydrochloric acid, when a deposit of iodine takes place. For determining the presence of carbonate and sulphate of potash. and the alkaline chloride if in large amount, shake up well with pure alcohol, and these salts will be left undissolved. The chloride may be estimated by precipitating the solution of the sample with excess of nitrate of silver, and adding ammonia to excess. The iodide of silver remains insoluble, while the chloride is dissolved, and can again be precipitated from the filtered liquid by the addition of an excess of nitric acid. Sulphur impurities may be detected by adding to the solution a little sulphuric acid and a small quantity of granulated zinc. Allow the gas evolved to pass over some moist carbonate of lead, which will be blackened if sulphuretted impurities are present.

Lard.—Pure lard should be quite free from taste and smell, and form a perfectly clear liquid when melted, by immersing a tube containing it in hot water. If either lime, carbonate of soda, or water has been added, the melted fat will be more or less opaque. By keeping the sample in a molten condition water gradually settles out if present.

Myrrh.—Genuine myrrh, on the addition of nitric acid, forms a transparent, dirty-yellow liquid. *Bdellium indicum* will not dissolve in nitric acid, but becomes soft, and turns whitish and opaque. Filter paper moistened with an alcoholic tincture of myrrh and then touched with nitric acid turns a blood-red colour, while a strip of paper soaked in a tincture made from *bdellium* or *myrrha indica*, and treated in the same manner, remains yellow or brown. On igniting, good myrrh should not leave more than from 3.5 to 3.8 per cent. of ash.

Menthol.-Is occasionally adulterated when moulded into

cones, with wax or paraffin, in order to make it hard. To detect this, slowly evaporate a portion of the suspected cone at a low water-bath temperature. If either adulterant be present, a fusible residue will be left which has very little smell.

Musk. — Genuine musk grains should dissolve in boiling water, not leaving more than 25 per cent. of residue. On incineration it should not leave more than 6 per cent. of ash. It should be soluble in ether, and should be precipitated from a hot solution by acids and acetate of lead, but not by chloride of mercury.

Nitrate of Potassium .- For the detection of nitrite in nitrate of potash, to a solution of the salt add one or two drops of vellow prussiate of potash, not sufficient to communicate a perceptible yellow tint. A few drops of acetic acid should then be added, and almost immediately, according to the quantity of nitrite present, the liquid will turn a bright golden colour. When testing for minute quantities it is best to use two similar flasks, one containing pure water and the other the solution of salt to be examined, and add the re-agent to each in exactly the same quantity, placing a sheet of white paper behind each vessel. This may also be used as a test for nitrates by boiling the sample for a short time with clean shavings of lead, and proceeding as above, the absence of nitrites in the substance having been first determined. Lead reduces even the nitrate of potash to nitrite. --- (Schaffer's test.)

Nitrate of Silver.—Make a solution in water and add hydrochloric acid, filter, and treat the precipitate with excess of ammonia. If it does not entirely dissolve in the ammonia, chloride of lead is indicated. Treat the filtrate with H_2S ; a brown or black precipitate proves copper or lead present. Filter the liquid, evaporate to dryness and ignite. A white saline residue indicates the presence of nitrate of potash.

Olive Oil.—Its specific gravity should be between '913 and '918 at 60°. For the detection of cotton-seed oil, make a 1 per cent. test solution of nitrate of silver in absolute alcohol. Place 5 c.c. of the suspected oil in a glass flask, add to it 25 c.c. of absolute alcohol and 5 c.c. of the test solution. The flask is then heated in a water-bath at 84° C. If there be any cottonseed oil present the mixture will begin to darken, the most minute quantity serving to discolour, and the tint assumed will depend on the amount of cotton-seed oil present. --(Bechi's test.)

Castor Oil.—Should be entirely soluble in one volume of absolute alcohol and in two volumes of rectified spirit. (B.P. tests.) For adulteration with rosin oil add a few drops of stannic bromide in carbon bisulphide to the suspected sample of oil in the same solvent. If a red or violet colour is developed, rosin oil is present in proportion to the rapidity and colour produced. As low as 3 or 4 per cent. of rosin oil may thus be detected. —(Renard's test.)

Oxalic Acid.—Organic impurities may be detected by heating a small quantity with sulphuric acid; if pure it will not turn brown or bluish. Pure oxalic acid should leave no residue after heating to redness in a platinum crucible.

Phosphoric Acid.—A white precipitate on the addition of chloride of mercury indicates the presence of phosphorous acid. Arsenic may be detected by passing a current of H_2S through it; and sulphuric and nitric acids by applying the usual tests. Sulphocyanide of potassium gives a red coloration if iron be present.

Soft Paraffin (Vaseline).—Good soft paraffin should be completely volatile when heated on fire, and should not give off any smell of burning fat. When agitated with twice its volume of strong spirit it should remain practically undissolved. The spirit on testing afterwards should neither be acid nor alkaline.

Podophyllin.—According to Podwyssotzki, the active constituent of podophyllin is podophyllotoxin, which is present in commercial samples of podophyllin to the extent of from 20 to 30 per cent. This may be estimated by treating about a grain of the resin with chloroform in the cold as long as anything is dissolved ; the greater part of the chloroform is then driven off by the heat, and the remainder of the chloroformic solution is poured into twenty times its volume of light petroleum spirit. The podophyllotoxin separates out, and can be removed, dried, and weighed.

Potassium Bromide. — In solution, on being mixed with chlorine (chlorinated lime and HCl will do), then agitated with chloroform, the latter, on falling to the bottom, exhibits a red coloration. A further portion of the solution mixed with mucilage of starch and a drop of an aqueous solution of bromine or chlorine, should not give a blue colour. The addition of diluted sulphuric acid should not immediately cause a yellow coloration, which indicates the absence of bromate.

Quinine.—Should be entirely soluble in water acidulated with sulphuric acid. It dissolves in pure sulphuric acid with a feeble yellowish tint, and undergoes no further change of colour when gently warmed. Twenty-five grains of the freshly-prepared salt should lose 3.8 grains of water by drying at 212° F. Ignited, with free access of air, it should leave no residue.

Rhubarb.—An old test for the quality of rhubarb root is to place two or three drops of oil of aniseed or fennel on a piece of the root, and rub on it for a few minutes a little magnesia. If the root be of inferior quality, the spot rubbed will gradually turn salmon-colour or pink ; while if genuine and of good quality it will remain the usual yellow colour.

Salicin. — For contamination with lead, dissolve a small quantity in water, and add a few drops of sulphydrate of ammonium; if a dark coloration or black precipitate be produced, the presence of lead is indicated. Ten grains of salicin, shaken up with 2 ounces of ether, and filtered, allowed to evaporate, should leave no residue. On igniting no ash should be left.

Sulphate of Iron.—Test for copper: Boil a small quantity in water with nitric acid and add ammonia to excess. If copper is present the liquid will be tinted blue after the precipitate has settled. Alumina is also a frequent impurity. To determine this, add to a solution which has been treated in a like manner with nitric acid an excess of caustic potash, boil and filter; then add ammonium chloride; if alumina be present a white precipitate will be thrown down on standing.

Sulphate of Magnesia. —To a solution of the salt add baryta water, then excess of ammonia carbonate. Filter, evaporate the filtrate to dryness, and ignite. If sulphate of soda be present, carbonate of soda will remain. If contaminated with iron, sulphydrate of ammonia will give a black precipitate. To test for copper add excess of ammonia, and the liquid will assume a blue colour if copper be present.

Sulphate of Zinc. — Boiled with excess of caustic potash it should entirely dissolve. A blue coloration on the addition of ammonia indicates copper. Add sulphydrate of ammonia; if white precipitate the sample is free from iron. Should the precipitate be grey or dark in colour it indicates the presence of iron.

Scammony.—Starch may be detected by adding tincture of iodine to a little of the powdered scammony shaken up with boiling water and allowing it to cool. If it turns blue it indicates the presence of starch. If adulterated with common resin or guaiacum, the addition of sulphuric acid will turn it red; if the latter alone, it will change to green on mixing with water. It should not change on the addition of chloride of soda or perchloride of iron. The presence of jalap resin may be detected by shaking up scammony with ether. Jalap resin remains undissolved.

Compound Tincture of Camphor. — "Paregoric without opium" is best detected thus: Dilute 1 fluid drachm with proof spirit to 1 fluid ounce, add a few drops of perchloride of iron solution (10 grains in 100 minims). If opium is present a red colour is produced. Some idea of the strength of the opium can be got by taking a known strength of opium and diluting till it gives the same tint with the chloride as the solution tested.

Ginger.—The best method for testing this article is a little tedious, but presents no difficulty and requires but little apparatus. A weighed quantity is dried at the water-bath temperature for six hours, and the loss in weight is taken. Nearly all this is due to moisture, and it should never exceed 15 per cent. In good ground ginger it is seldom so much. One hundred grains or any convenient quantity are then placed in the Soxhlet exhausting-tube and extracted with ether which, of course, should be kept boiling with hot water, and not by a naked flame. This is allowed to exhaust for the whole day, and the ether is then allowed to condense in the Soxhlet tube, and the flask taken away before it syphons over again. This saves the trouble of recovering the ether afterwards. The flask is now dried at 212° F. till of constant weight. The amount of what is extracted from the ginger thus should not be less than 3.5 per cent. (3.5 grains to the above quantity). It is generally much higher, and rarely goes down to 3 per cent. The same process should now be repeated on the same quantity of ginger, substituting alcohol for ether in the Soxhlet tube, and the alcoholic extract (which takes nearly two days to come

out) should be from 2-4 per cent. (2-4 grains). A convenient quantity is then burnt (100 grains), and the ash weighed. It should lie between 3 and 4 per cent. (3-4 grains), and should never exceed 4.5 per cent. It is then treated with hydrochloric acid (1 part acid and 1 water) and raised to boiling-point. The insoluble portion is filtered off, the filter paper washed, dried, and burnt, and the residue weighed. This sandy, or siliceous matter, should never exceed 1.8 per cent. (100 grains = 1.8 grains), and even when it is as high as this, it is probably due to extraneous matter.

Beeswax.—There are two simple tests (both of which, however, can mislead one, when the wax is skilfully adulterated), which will, at least, give some aid to the pharmacist, especially in the case of wax adulterated with paraffin and cerasin. These tests are the melting-point and the specific gravity. The melting-point is taken in the usual method, and should be from 62° to 63° C. The specific gravity is best determined by making up mixtures of spirit and water until a small pellet of the wax, evenly cut and free from air-bubbles, just remains in position in the liquid without either sinking or floating. The specific gravity of the mixture of spirit and water is then taken in the specific gravity bottle as usual.

Pepper.—The chief test for this is the total amount of ash got by burning and the amounts soluble in water and hydrochloric acid.

Black pepper should yield total ash	4-5	per cent.
White pepper should yield total ash	1.2	
Black pepper should yield ash soluble in water	2-3	the second se
White pepper should yield ash soluble in water	.56	33 33
Black pepper should yield insoluble ash .	.35	
White pepper should yield insoluble ash .	.13	

The solvents are first water, then hydrochloric acid. The amount soluble in hydrochloric acid is got by difference between the total ash and the sum of the other two items given above.

Methylated Spirit in Tinctures.—Distil off the alcohol from the tincture, add to it a little bichromate of potassium and sulphuric acid and digest for two hours in the cold. Dilute to ten times its volume. Distil off half; make slightly alkaline with sodium carbonate; boil down to half; acidify with acetic acid and add silver nitrate solution. Heat just to boiling.

N

Pure spirit gives a very dark brown colour and silver mirror on the sides of the tube.

Spirit of Nitrous Ether. — Spt. eth. nit. should have a specific gravity of 0.840 to 0.845; should not effervesce, or but feebly, when shaken up with bicarbonate of soda. The presence of aldehyde is indicated by a brown coloration on heating with caustic potash. It should yield not much less than five times its volume of the gas on keeping. The spirit may be tested with accuracy by the nitrometer, or the following simple method. Prepare two solutions as follows—

No. 1.

₿.	Sodii Hyposulp	h.				gr. iv.
	Sodii Chloridi					gr. xl.
	Potass. Iodid.					gr. xx.
1	Aq. Ad	•	•	•	•	Zii.

Solve.

No. 2.

R.	Spt. Æther.					3 ii.
1	Acid. Sulph.	Dil.	•	•	•	3i.

Misce.

Place No. 1 solution in a small porcelain dish; a two-ounce ointment-pot will answer the purpose. Pour into this 35 iss. of No. 2 solution, and stir till effervescence ceases. This mixture should be free from iodine colour; if not so, the spirit of nitre is stronger than should be used; if no iodine has remained free after the effervescence has passed off, add another 35 s. of the No. 2 solution. This should now produce a permanent brown colour if the spirit of nitre is up to its normal strength. If a second addition of 35 s. (total 35 iss.) is required, it is below its normal, but not unfit for use; but if this second 35 s. fails to produce a permanent brown colour, the spirit of nitre is too weak to be sanctioned.

Lime Water.—This should contain 10 grains of lime in the pint. Two fluid ounces, tinged blue with litmus, should require the whole of one ounce aqueous solution containing 21 grains of pure crystallised oxalic acid to change the colour to a red.

URINALYSIS.

THE following are some of the chief tests employed in qualitative analysis of the urine, and are simply intended to serve as a reminder and guide to the chemist when conducting his analysis.

PHYSICAL CONDITIONS.

Quantity Voided.—The normal quantity voided is from 40 to 50 fluid ounces daily. This amount is increased in diabetes, and diminished in volume in Bright's disease.

Specific Gravity varies as a mean between 1.015 and 1.025, but varies largely in certain diseases. A very high S.G. indicates a large percentage of grape sugar.

Reaction.-Normal urine is always acid, but after standing it becomes alkaline.

Colour.—High colour usually indicates the presence of either blood, bile, excess of urea, urates, or pigments. Certain drugs also influence the colour. Senna makes it red, rhubarb brownishyellow, and carbolic acid dark green, or almost black.

TESTS FOR ALBUMEN.

Heat Test.—Fill a test-tube one-third full of the urine, add a little acetic acid to ensure acidity, and heat to boiling. If a precipitate is formed, it may be due to albumen or to phosphates. Add 10 or 15 drops of nitric acid; if it is soluble it is due to phosphates, if insoluble albumen is present. A rough estimation may be made by allowing the precipitate to settle in a graduated tube, and reading off the result.

Nitric Acid Test.—Place a small quantity of nitric acid in a test-tube, and pour in slowly and carefully an equal quantity of the urine, so as not to mix with the acid. If albumen be present, a white zone or cloudy appearance will appear at the junction of the liquids, varying in thickness according to the amount of albumen present.

Ferro-cyanic Test.—Acidify the urine with citric acid, and add solution of ferro-cyanide of potassium; a precipitate is formed if albumen be present. Double Iodide of Mercury and Potassium Re-agent. — This has the following composition —

Potassium Iodide			3.22 grammes.
Mercury Bichloride			1.35 grammes.
Distilled Water	q.	s. to 1	100 c.c.

For use, acidulate the urine, and then add the re-agent, 5 c.c. precipitate, 5 mg. of albumin.

Picric Acid Test.—Place a small quantity of saturated solution of picric acid (7 grs. to 1 ounce) in a test-tube, and add the urine to it gradually, drop by drop. If albumen be present, each drop will be followed by an opaque white cloud.

SUGAR.

In cases where a large amount of urine of a pale colour is passed, and the S.G. is above 1.030, sugar may be suspected. Fehling's Solution Test.—

Modified Formula for Fehling's Solution.

Take of	1.		
Sulphate of Copper			181 grains.
Distilled Water .		q.s. to	6 ounces.
Dissolve.			

II.

Take of

Neutral Tartrate	of J	Potassi	ium		728 grains.
Caustic Soda				•	360 grains.
and the second					

Dissolve.

Of a mixture of these two solutions in equal volumes, 10 c.c. will be decolorised and reduced by 0.05 gramme (or 53 minims $= \frac{1}{4}$ grain) of glucose or diabetic sugar in solution with precipitation of yellowish-red cuprous oxide when the two are boiled together. No. 2 solution should not be kept in a very cold place, else it will crystallise.

Pavy's Test is a modification of Fehling's, ammonia being added to the copper solution. The formula is as follows-

ke of Crystallised Sulj	hate	of Co	opper		34.65 grammes, or
Rochelle Salt					533 grains. 173 grammes, or
Caustic Potash					2,664 grains. 160 grammes, or 2,464 grains.
Water		• 27	q.s.	to	1,000 c.c., or 35 fld. ounces.

Dissolve.

Ta

When 120 c.c. of this solution are mixed with 300 c.c. of ammonia ('880) and diluted to 1,000 c.c., then 10 c.c. may be taken as equivalent to 0.005 gramme of grape sugar.

Johnson's Test. — Boil a small quantity of the urine with weak solutions of potash and picric acid. Intense deepening of colour takes place if sugar be present.

Böttger's Bismuth Test.—Add to the urine an equal amount of solution of potash and a small quantity of bismuth subnitrate. Boil for a short time, and metallic bismuth will be deposited on the sides and bottom of the tube as a black or brownish precipitate if sugar be present.

Indigo Carmine Test.—Take a small quantity of solution of indigo-carmine (1 to 1,000), and add sufficient soda carb. to make it alkaline; boil with half its volume of the urine. If sugar be present, it will turn from blue to purple, then red, yellow, and finally straw colour.

Fermentation Tests.—Fill a tube with the urine, and add a piece of compressed yeast about the size of a nut. Fit a perforated cork with a bent glass tube that will nearly reach to the bottom of the test-tube. Cork tightly, and place the other end of the bent tube into a receiver. Let it stand over night in a moderately warm place. If sugar be present, fermentation will take place, and force the urine through the tube into the receiver. An odour of alcohol will also be given off.

Roberts' Test.—Fill two four-ounce bottles with urine; into one put a piece of yeast about the size of a walnut, and stop with a nicked cork. In twenty-four hours take the S.G. of both, after having removed the scum. The differences of S.G. will be indicative of the number of grains of sugar present in the fluid ounce of urine.

BILE.

Rosin's Modification of Moleschott's Test.—Two or three c.c. of a 10 per cent. solution of iodine tincture in alcohol are poured down the side of a test-tube containing the urine, in a manner that the fluids will not mix. Hold the tube very much inclined. If there be any bile pigment present, in a few minutes a fine green ring will appear at the point of contact; if none is present, the re-agent destroys the urochrom with the formation of a pale yellow or colourless ring.

UREA.

Fowler's Test.—Mix urine, 1 part, with Labarraque's solution, 1 part; there will be considerable effervescence. Shake the jar containing the mixture occasionally for two hours. Take the specific gravity of the quiescent fluid, and find the specific gravity of the mixture of urine and Labarraque's solution before decomposition. (This is done by multiplying the S.G. of the hypochlorite solution by 7, adding the S.G. of the urine, and dividing by 8.) Subtract the S.G. of the quiescent mixture from this result, and multiply by 77; the product will be the percentage of urea.

URIC ACID.

Butte's Test consists of the following-

1.484 grammes. 20 grammes. 40 grammes.

1,000 grammes.

First remove the phosphates from the urine by adding an excess of sodium carbonate and filtering; now carefully titrate with the test solution, 1 cubic centimetre of which will cause a white precipitate exactly equal to 1 millegramme of uric acid.

Hopkins' Test.—To 100 c.c. of the urine add 30 grammes of pure finely-powdered ammonium chloride; allow to stand two hours, collect the precipitate (ammonium urate) upon a filter, wash it with a saturated aqueous solution of ammonium chloride, and dissolve it in a minimum quantity of distilled water. Repeat the operation of precipitating with saturated solution of ammonium chloride and re-dissolving in water several times to purify it. Finally, dissolve in hot distilled water, and decompose the ammonium urate by boiling in excess of HCl. The solution (concentrated, if necessary) is set aside, and the uric acid allowed to separate out. The amount may be determined by any accustomed method—as evaporation over a waterbath, or weighing on a tared filter, etc.

URATES.

Uric acid is bi-basic, forming two series of salts; neutral and acid—the former being much more soluble than the latter. The urates are soluble at the temperature of the body; but on reducing the temperature, the acid salts are precipitated. If acid be added to the urine, the neutral salts are converted into the acid salts, which are then precipitated.—Tyson.

BLOOD.

Blood renders the urine dark reddish-brown in appearance, and may be detected in the microscopical examination. It may be also confirmed by the guaiacum test.

Mucus occurs more or less after urine has stood for some time as a ropy, tenacious deposit, not mixing uniformly with the liquid when shaken, and coagulated by acetic acid.

Oxalates and Phosphates appear as crystalline deposits, easily distinguishable from the last-mentioned deposit. Oxalates, chiefly oxalate of calcium, are insoluble in acetic acid, but soluble in dilute hydrochloric acid. Phosphates are soluble on the addition of acetic acid. Microscopically, they appear as stellæ, or three-sided prisms, or small dark granules covered with spines, or large clear knife-rest or coffin-lid form, or they may be present as *amorphous* phosphates.

Pus occurs as a greenish-yellow deposit of detached granulated corpuscles, easily diffused on agitation, and converted into a gelatinous mass by potassium hydrate. Microscopically, the pus corpuscles are larger than blood discs, and are colourless.

Works for Reference.—Beale's Urine, Urinary Deposits and Calculi; Wynter and Wethered's Manual of Practical Pathology; Scott's Manual of Urine Testing; Legg and Jones' Examination of the Urine; Neubauer and Vogel's Analysis of Urine, etc.

PHOTOGRAPHIC CHEMICALS, AND SOLU-TIONS USED IN PHOTOGRAPHY.

THE following list includes most of the chemicals used in photography, with their uses.

Acid, Acetic.—As a restrainer in developing, used in many formulæ of the wet process.

Acid, Citric.—Used as a restrainer of the developer, and as a clearing solution after development, if the plate be fogged.

Acid, Pyrogallic.—Used for developing.

Alum.-Used in solution for immersing gelatine plates after development to prevent frilling.

Ammonia Liquid ('880).-Used in developing.

Ammonia Bromide.—Used as a restrainer in developing.

Ferrous Sulphate. - Used as a developer with potass oxalate.

Gold Trichloride.-Used to give a proper colour to silver prints.

Mercuric Chloride. — Used for intensifying.

Potassium Cyanide. — Used for fixing in the wet process.

Silver Nitrate. -- In making plates and emulsions.

Soda Acetate. — Used in toning.

Soda Carbonate.-Used in developing.

Soda Hyposulphite.—Used for fixing. Solution for fixing bath in water, 25 per cent.

Ammonia Sulphocyanide, Eikonogen, Hydroquinone, Potassium Bromide, Potassium Oxalate, Sodium Hydrate, Sulphuric Acid, Sodium Sulphite, Sodium Tribasic Phosphate, Metol. Potass. Metabisulphite, etc., etc.

FORMULÆ FOR SOLUTIONS.

DEVELOPERS.

METOL AND HYDROQUINONE SOLUTION.

Metol				80 grains.
Hydroquinone .				120 grains.
Sodium Sulphite .				11 ounces.
Distilled Water, to				10 ounces.
Dissolve in the above	order	r.		

THE ALKALI.

Sodium Tribasic	Phos	phate		300 grains.
Distilled Water,	to			10 ounces.

For use, mix 1 part of the metol solution with 3 parts of the alkali. For time exposures, one grain of bromide of potassium may be added to each ounce of developer.

PYRO SOLUTION.

Pyrogallic Acid		1 oz. (avoir.)
Potassium Metabisulphite		1 ounce.
Distilled Water, to make		9 oz. 55 mins.

Dissolve the metabisulphite in 6 ounces of the water, open the bottle of pyro and pour on to it the solution of metabisulphite, and sufficient water to make up the full bulk, and bottle immediately. This should not be filtered.

The alkali to be used with this may be either ammonia, soda, potash, or preferably, the new salt—sodium tribasic phosphate —and a 10 per cent. solution should be made, using liq. ammonia '880, sodii carb. B.P., or potassii carb. B.P. Besides these, a third solution, 10 per cent. of potassium bromide, will also be required.

HYDROQUINONE DEVELOPER.

No. 1.

Hydroquinone		4 grains.
Potassium Metabisulphite		3 grains.
Bromide of Potassium .		1 grain.
Water, to make		1 ounce.

No. 2.

Caustic Potash				10 grains.
Water			17.	1 ounce.
Citrate of Potash				15 grains.
Mix in equal parts				

GLYCIN DEVELOPER.

Glycin			6 grains.
Sodium Sulphite	1		30 grains.
Potassium Bromide .			1 grain.
Sodium Carbonate			44 grains.
Distilled Water, to make			1 ounce.

This is a slow developer, but gives very clear negatives.

GLYCIN AND PYRO DEVELOPER.

No. 1.

				7 ounces.
Sodium	Carbonate			308 grains.
Glycin				62 grains.
(b) Water				7 ounces.
	Sulphite			618 grains.
Pyrogall	lol .			100 grains.
Sulphur	ic Acid			2 to 3 drops.

For use, mix equal parts of a, b, and water. This gives soft results, specially suitable for portrait work.

No. 2.

(a) Water .				7 ounces.
Potassium Ca	rbonate			124 grains.
Glycin .				31 grains.

(b) Pyro solution as with No. 1.

For use, mix as directed for No. 1. This gives negatives of greater density and great clearness, which are specially suitable for platinum printing.

No. 3.

(a) Same as No. 2, but with 61 grains of potassium carbonate in addition.

(b) Same as in No. 1.

Mix as in No. 1. This is very suitable for instantaneous work.

POTASH DEVELOPER.

No. 1 Solution.	No. 2 Solution.					
	Pot. Carb3 ounces.Soda Sulphate.2 ounces.Water7 ounces.					
Sulphurous Acid . 2 ounces. Acid Pyrogallic . 1 ounce.						

Used in equal proportions.

SODA DEVELOPER.

No. 1 Solution.No. 2 Solution.Sulphite of Soda . 6 ounces.Carbonate of Soda. 4 ounces.Water . . 1 quart.Water . . 1 quart.Acid Pyrogallic . 1 ounce.Water . . 1 quart.Used in equal proportions diluted with an equal quantity of

water.

CLEARING BATHS AND JAVELLE WATER.

Alum .		2 ounces.	Dry Chlorinated
Citric Acid		1 ounce.	Lime 1 ounce.
Water .		10 ounces.	Carbon. of Potash 2 ounces.
			Water 20 ounces.
			Mix the lime with three-
			fourths of the water, dissolve
			the potash in the remainder, mix the solution, boil, and
			filter.

A DURABLE NEGATIVE VARNISH.

Take of

Shellac .				Zivss.
Mastiche				3 i.
Spt. Turps.				3i.
Sandarac				Zivss .
Venice Tur	DS.			3i.
Camphor		1.10		gr. v.
Spirit .				Zx.

Dissolve

FORMULA FOR ILFORD DRY PLATES.

No. 1. Stock Solution.	No. 2 Solution.
Pyrogallic Acid . 1 ounce.	Liquid Ammonia
Bromide of Am-	Fort. (.880) . 3 drms.
monium 600 grains.	Water 1 pint.
Water, add to . 6 ounces.	

No. 3 Solution.

Of No.	1	Solution			1 ounce.
Water	•				19 ounces.

No. 1 Developer.

Acid Pyro		1 ounce.
Potass. Metabisulphite		1 ounce.
Water, add to .		10 ounces.

No. 2 Accelerator.No. 3 Restrainer.Ammonia (*880) . 1 ounce.Ammonium Brom. 1 ounce.Water, add to. 10 ounces.Use with equal parts of water.

FRILLING SOLUTION.

Chrome Alum			1/2 ounce.
Water			20 ounces.

FIXING SOLUTION.

Soda Hyposulph	ite		16	ounces.
Water, add to			80	ounces.

HYDROQUINONE DEVELOPER.

(Universal.)

Solution 1	4.	Solution B.					
Hydroquinone . Sodium Sulphite . Water, add to .	160 grains.	Caustic Soda Potass. Bromide Water, add to		40 grains. 20 grains. 10 ounces.			
Mix in ear	al volumes i	mmediately before	115	P.			

QUINOL AND EIKONOGEN SOLUTION.

Quinol .		-	40 grains
Eikonogen .			50 grains.
Sodium Sulphite			160 grains.
Water, add to			10 ounces.

CLEARING	SOLUTION.	INTENSIFYING S	OLUTION.
Alum Solution Acid Sulphuric		Mercuric Chloride Hydrochloric Acid Water, add to	$\frac{1}{2}$ ounce. 45 grains. 10 ounces.

GREEN FOG.

Ferric Chloride			50 grains.
Potass. Bromid.			30 grains.
Water			4 ounces.

FOR PRINTING ON GELATINO-CHLORIDE PAPER.

SULPHOCYANIDE BATH.

Ammon. Sulpho	cyani	d.		30 grains.
Water				20 ounces.
Gold Chloride				2 grains.

Dissolve the sulphocyanide in water, and then add the gold.

TONING BATH.

Borax	1			90	grains.
Water			1.	 20	ounces.

To every ten ounces add, immediately before use, one grain gold chloride.

FIXING SOLUTION.

Soda Hyposulphi	te		2 ounces.
Water, add to			20 ounces.

FOR PRINTING ON ALBUMENISED PAPER.

THE ACETATE BATH.

(Toning.)

Sodium Acetate			60 grains.
Gold Chloride			2 grains.
Water, add to			20 ounces.

INTENSIFIER.

No. 1.

Bichloride of Mercury			90 grains.
Bromide of Potassium			90 grains.
Water			10 ounces.
Hydrochloric Acid.			10 drops.

No. 2.

Nitrate of Silver .			90 grains.
Cyanide of Potassium			90 grains.
Water			10 ounces.

REDUCTION.

Ferricyanide of Potass 1 ounce. Water 10 ounces. Dissolve.

INTENSIFIERS.

Solution No. 1.

Potassium Bromide Copper Sulphate			1 ounce.
Copper Sulphate Distilled Water, to	make		8 ounces.

Silver Nitrate			‡ ounce.
Distilled Water,	to make		8 ounces.

Directions for Use.—Lay the well-washed negative or bromide print in No. 1 solution till bleached right through, well wash, and then immerse in solution No. 2 till it has darkened right through, then wash, and place for a few minutes in a clean fixing bath, and again wash.

Solution No. 1.

Mercury Perchloride .		100 grains.
Hydrochloric Acid, pure		30 mins.
Distilled Water, to make		10 ounces.

Solution No. 2.

Silver Nitrate .			200 grains.
Distilled Water, to m	ake		10 ounces.
Potassium Cyanide			q.s.

The proper method of making this solution is to dissolve the silver nitrate in 5 ounces of the water and 200 grains of cyanide in about 1 ounce of distilled water, place the silver solution in the bottle, and add the cyanide in quantities of about 1 drachm at a time, shaking thoroughly after each addition. A curdy white precipitate will be formed, and as more cyanide is added this will gradually re-dissolve. Care must be taken that all the silver cyanide is not re-dissolved ; some undissolved precipitate must be present, or else this solution will attack the image.

PLATINUM TONING BATHS.

(For Chloride Papers.)

Liquid Bath.

Potassium Chloroplatinite		30 grains.
Lactic Acid (S.G. 1.21) .		155 mins.
Distilled Water		10 ounces.

Directions for Use.-Dilute this solution with double its volume of water before use.

Dry Powder.

Potassium Chloroplatinite		15 grains.
Sodium Lactate		150 grains.
Acid Sulphate or Phosphate or	f Soda	150 grains.

Directions for Use.-Dissolve the powder in 35 ounces of water.

After printing, the prints should be placed in a solution of salt 2 ounces, water 20 ounces, for at least ten minutes, and kept on the move. They should then be washed for five minutes and toned, and when toning is complete, transferred to a solution of washing soda, about 1 in 20, and thence after about five minutes to a fixing bath composed of—

Sodium	Hyp	0.				21 ounces.
Sodium	and the second second					1 ounce.
Sodium	Carb	onate				1 ounce.
Water			•			20 ounces.

and then thoroughly washed.

BACKING FOR PLATES.

At the present time there is considerable demand for plate backings, which can be easily applied and as readily removed. There are two distinct kinds, one a solution or paste which is applied on the back of the plate, and the other a sheet of paper or cloth coated with some sticky substance which can be temporarily affixed to the back of the plate, and then removed before development, and can be used over again.

The first kind includes collodions, varnishes, and caramels.

Collodion for Backing Plates.

Pyroxylin			5 grains.
Methylated Spirit .			1/2 ounce.
,, Ether .			1/2 ounce.
Coralline Rouge or Auri	ine		10 grains.

Allow to stand for three days, shaking occasionally, then decant from any undissolved precipitate and bottle.

Varnish for Backing Plates.

	Gum Sandarac				13 ounces.
	Castor Oil .				1ª ounces.
	Methylated Spirit				4 ounces.
	Dragon's Blood		 	,	150 grains.
r)	Aurine				75 grains.

Macerate for a week and apply to the back of the plate with a pad.

(O)

TONING SOLUTIONS FOR BROMIDES.

No. 1.

					5 ounces. 20 ounces.
		No.	2.		
Sulphate of Iron					5 ounces.
Sulphuric Acid					10 drops.
Water	•				20 ounces.
		No.	3.		
Bromide of Potass					1 ounce.
Water, add to	1.		1.		10 ounces.

THE SALE OF POISONS (GREAT BRITAIN).

List of Poisons and Regulations as to Sale.—All the articles enumerated in Parts I. and II. are poisons within the meaning of the English Pharmacy Acts, and may not be sold, either by wholesale or retail, unless labelled with the name of the article, the word "poison," and the name and address of the vendor.

The poisons mentioned in Part I., besides being subject to the regulations mentioned above, may not be sold by retail to any person unknown to the seller, unless introduced by some person known to the latter; and on every sale of any such article, the seller must, before delivery, make, or cause to be

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made, an entry in a book to be kept for that purpose, of the date of sale; the name and address of the purchaser; the name and quantity of the article sold; and the purpose for which it is stated by the purchaser to be required. To this entry the signature of the purchaser, and of the person, if any, who introduced him, shall be affixed.

The maximum penalty for breach of the law is $\pounds 5$ for the first, and $\pounds 10$ for every subsequent offence.

PART I.

Arsenic, and its preparations.

Aconite, and its preparations.

Alkaloids :---All poisonous vegetable alkaloids and their salts. Atropine, and its preparations.

Cantharides.

Corrosive Sublimate.

Cyanide of Potassium, and all metallic cyanides and their preparations.

Emetic Tartar.

Ergot of Rye, and its preparations.

Prussic Acid, and its preparations.

Savin, and its oil.

Strychnine, and its preparations.

Vermin Killers, if they contain any poisons, or preparations of poisons, which are on this list.

PART II.

Almonds, Essential Oil of, unless deprived of Prussic Acid. Belladonna, and its preparations.

Cantharides, tincture, and all vesicating liquid preparations thereof.

Chloroform.

Chloral Hydrate, and its preparations.

Corrosive Sublimate, preparations of.

Morphia, preparations of.

Nux Vomica, and its preparations.

Opium, and its preparations; and preparations of poppies. Oxalic Acid.

Precipitate, Red (Red Oxide of Mercury).

Precipitate, White (Ammoniated Mercury).

Vermin Killers. —Compounds containing poisons, prepared for the destruction of vermin, if not in Part I.

These poisons may only be retailed by qualified chemists and druggists. It has been decided in the Courts that an unregistered assistant can only sell them under the actual personal supervision of a qualified person upon each individual sale.

It has also been decided in England that any preparations containing any one or more of the above poisons in a poisonous quantity must be labelled poison, and also that such preparations, unless sold under the authority of letters patent, can only be sold by qualified chemists and druggists. There does not appear to be any difference between a "preparation of" a poison and a compound containing one. An unqualified partner is liable for keeping open shop for the sale of scheduled poisons, though his partner be a qualified chemist and druggist.

Exemptions.—The Acts disclaim any intended interference with the business of legally qualified medical practitioners, or apothecaries, or veterinary surgeons, or with the making or dealing in patent medicines.

It has been decided that patent medicines here mean medicines sold under the authority of letters patent; and that the ordinary (so-called) patent medicine is not a patent medicine, within the meaning of the exemption contained in the Pharmacy Act, 1868; and that a (so-called) patent medicine, if containing any scheduled poison in a poisonous quantity, is subject to the law relating to the sale of poisons pure and simple.

The regulations, moreover, which are solely applicable to poisons in Part I., or which require the label to contain the name and address of the seller, do not apply to articles for export from Great Britain by wholesale dealers, or to sales by wholesale to retail dealers in the ordinary course of wholesale dealing.

Sales by wholesale to persons who are neither dealers nor retailers are probably not within this exception.

Again, wholesale dealers who supply poisons in the ordinary course of wholesale dealing (meaning, probably, to other dealers or retailers only) are not compelled to be qualified chemists and druggists, within the meaning of the Pharmacy Act, though they must conform to the regulations as to labelling, etc., to be observed on the sale of scheduled poisons or preparations thereof. Dispensing.—None of the foregoing regulations apply to any article when forming part of the ingredients of any medicine dispensed by a registered chemist and druggist; but if a medicine contain a poison included in Part I. or Part II., the ingredients of the medicine, together with the name of the person to whom it is sold or delivered, must be entered in a book kept by the seller for that purpose, and the medicine must be distinctly labelled with the name and address of the seller.

Note as to Ireland.—The foregoing regulations relative to the sale of poisons are practically the same as those in force in Ireland. But it is to be noted that the schedule of poisons under the Irish Poisons Act does not contain the following, viz.—

Preparations of prussic acid.

While all vermin killers are placed in Part II. of the Irish schedule.

On the other hand, Part II. of the Irish schedule contains phosphorus and sulphuric ether, which are not in the schedule to the English Pharmacy Acts. In Ireland there is also a class of registered druggists who are qualified to sell scheduled poisons.

Arsenic.—Special regulations affect the sale of arsenic. It is unlawful to sell it or any of its preparations, unless, in addition to all the foregoing regulations relative to poisons, the following provisions of the Arsenic Act, which apply to Great Britain and Ireland, be also observed. The poison, if colourless, must be mixed with soot or indigo (at least an ounce of the former or half an ounce of the latter to one pound) to colour it. The person to whom the poison is sold or delivered must be of mature age. The occupation, as well as the name and address, of the purchaser, must be entered in the poison-book. When the purchaser is not known to the seller, and is introduced by some person known to both, this person shall be present as a witness to the transaction, and shall enter his name and address in the poison-book.

Maximum penalty for breach of these regulations £20.

This Act does not interfere with the sale of arsenic in medicine under a proper medical prescription or to the sale of arsenic by wholesale to retail dealers upon orders in the ordinary course of wholesale dealing.

POISONS AND ANTIDOTES.

NAMES OF POISONS.	NAMES OF ANTIDOTES.
Acids { Hydrochloric. Phosphoric. Sulphuric. Nitric, etc.	Lime Water. Oxide or Carbonate of Magnesia stirred to a thin paste and water. Soap Water. Milk. Mistura cretæ.
Alcohol.	Liquor Ammoniæ Acetat. Spiritus Ammoniæ Aromat. Emetics. Ammonia vapour to the nostrils.
Alkalies.	Acetic Acid or vinegar diluted with water. Lemon Juice. Tartaric Acid.
Alkaloids.	 v. the several alkaloids. Iodine. Tannin. (If not available), Tea or coffee (none of these last three for any of the strychnine poisons). Citric Acid. Lemon Juice. Friction of skin with mustard liniments or Ammonia.
Arsenic.	Antidotum Arsenici. B Liq. Ferri Persulph. 8 oz. Aquæ 16 oz. Magnesiæ oxidi 1 oz. Aquæ 16 oz. Mixture (2) To be mixed by adding (2) to (1). Two tablespoonfuls to be given at the com- mencement of poisoning every $\frac{1}{4}$ hour, later every 1 or 2 hours,

NAMES OF POISONS.	NAMES OF ANTIDOTES.
*	The two mixtures should always be kept ready in every pharmacy.
Atropine.	Tannin. Morphine.
Bromine.	Magnesia Oxide. Starch Paste.
Cantharides.	Camphor with Opium. No fat or oils.
Carbolic Acid.	Emetics. Sulphate of Soda in solution. Liq. Calcis Sacchar.
Carbonic Acid Gas.	Fresh air. Ammonia Smelling Salts to the nostrils.
Chlorine.	Hoffman's Spirit, both to the nostrils and internally. Spirit. Ether. Nitros.
Chloroform and Chloral.	Fresh air. Cold effusion of the head. Effervescing drinks.
Chromates.	Bicarbonate of Soda. Carbonate of Magnesia. Iron in syrup.
Colchicum.	Tannin.
Copper Salts.	Iron powder and sulphur in syrup. Albumen in syrup. Yellow prussiate of potash in 15-30 grs.
Creosote.	Albumen in aqueous solution.
Digitalis.	Tannin.
Ether.	Vapour of Ammonia to the nostrils.

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NAMES OF POISONS.	NAMES OF ANTIDOTES.			
Ether.	Solution of Acetate of Ammonia internally.			
Iodine.	Starch Paste, thin. Sodii Hyposulph. 30 grs. in water, 5 ozs.			
Ipecacuanha.	Tannin.			
Lead Salts.	Magnes. Sulph. Sodii Sulph. Dilute Sulphuric Acid and Water. Milk. Emetics. Purgatives.			
Mercury Salts and Preparations.	Mixture of {Iron Powder, 7 parts. Sulp. Precip., 4 parts. Starch Paste.			
Morphine and Opium.	Application of cold water to the body. Purgatives. Atropine. (5 m. of the B. P. solution.) Weak Solution of Potass Permanganate. Strong Coffee.			
Nicotine.	Tannin. Vinegar, 5 drms., with water and sugar.			
Nux Vomica	(v. Strychnine).			
Oxalates.	Mistura Cretæ. Liq. Calcis. Sacch. Camphor. Hoffman's Anodyne.			
Phosphorus.	Emetics. Copper or Zinc Sulphates. Terebene. Magnes. Oxid. Mist. Calc. Chlorata (v. Prussic Acid). No milk, oil, or alcohol, in consequence of the solubility of phosphorus in these liquids.			

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NAMES OF POISONS.	NAMES OF ANTIDOTES.
Prussic Acid (Aq. Laurocerasi, Potass Cyanide).	Chlorine and Ammonia to the nostrils and internally. Camphor injections. Cold effusion of the head. Mixture : Calc. chlorata
Santonin.	Emetics. Purgatives. Ether Chloroform} to counteract cramps. Chloral Hydrate.
Silver and Prepara- tions.	Sodium Chloride (common salt) solution. Albumen in water.
Strychnine.	Emetics. Tannin (no Coffee or Citric Acid). Morphine and Opium in small doses.
Sulphuretted Hydro- gen.	Fresh air. Sp. Ether. Nitros. to the nostrils. Mist. Calx. Chlorat. (v. Prussic Aeid) internally and externally.
Tartar Emetic and Antimonials.	Tannin. Milk. Albumen in water.
Tin Salts.	Sodæ Bicarbonas. Tannin. Magnesia Oxide. Milk. Emetics, but for this purpose no Copper Mixture.
Zinc	Tannin. Magnesia Oxide.

EMETICS.

Sulphate of Copper	8 or 10 grs.	Sulphate of Zinc	15 grs.
Water, add	1 oz.	Water, add .	1 oz.

WEIGHT OF TWENTY DROPS OF VARIOUS FLUIDS.

			Grammes.		Grains.
Aqua Dest		Gtt. 20.	.75	=	51
Ether (at 66 degrees).	+	17	-35	=	53
Liq. Hoffman			•45	=	6塁
Alcohol (at 80 degrees)		33	•45	==	61
Oil of Almonds		33	-50	==	81
Oil of Peppermint .		13	.65	=	94
Laudanum		2.2	.70	=	11
Acid Acetic (10 degrees)	1	23	.60	=	9
Acid Sulphuric (at 60 deg.	.)	27	1.20	=	171
Syrups (at 35 degrees)		23	1.20	=	23

TABLE OF EQUIVALENTS.

LIQUIDS.

1 minim . 1 fld. drachm 1 fld. ounce 1 imperial pin 1 gallon 1 gallon .	t		approxin ,, ,, ,, ,,	nate	4 30 568 2.2	06 c.c. c.c. c.c. c.c. 25 litres. 5 litres.
1 c.c			1		= 16	minims.
4 c.c					= 1	fld. drachm.
15 c.c					= 4	1 fld. drms.
25 c.c				. :	= 7	fld. drms.

.

30 c.c.						•	= 1 fld. oz.
60 c.c.							= 2 fld. ozs.
100 c.e.		. '					$=$ $3\frac{1}{2}$ fid. ozs.
120 c.c.							= 41/2 fld. ozs.
125 c.c.							= 4 ² / ₈ fld. ozs.
235 c.c.							= 8 ¹ / ₄ fld. ozs.
250 c.c.							= 84 fld. ozs.
300 c.c.							$= 10\frac{1}{3}$ fld. ozs,
470 c.c.							101 01
110 0.0.	•		-				- 10g nut 025
				Soli	DS.		
Tto gra	in					=	0.00013 gramme.
180 gr.						=	0.00043 grm.
Tto gr.						=	0.00054 grm.
100 gr.						=	0.00065 grm.
1						=	0.001 grm.
04.0							(1 milligramme).
1. gr.						=	0.0013 grm.
1 gr.							0.0016 grm.
1 gr.						=	0.002 grm.
						=	0.0026 grm.
1 gr.	•					=	0.0065 grm.
10 gr.	•				•		0.021 grm.
i gr.	•						
1 gr.	•		•		•		0.065 grm.
5 grs.	•		•	•	•	=	0.3 grm.
							(3 decigrammes).
15 grs.	•		•		•	=	l grm.
30 grs.	•		•		•	=	2 grms.
60 grs.					•	=	4 grms.
1 OZ.						=	3.5 grms.
1 OZ.						=	14.2 grms.
1 oz.						=	28 grms.
2 ozs.						=	56 grms.
1 lb.						=	112 grms.
1 lb.						=	225 grms.
1 lb.						=	450 grms.
2 lbs.						=	900 grms.
The second	-	in the second		america and	-	-	
				1 grm.)		=	de grain.
10 milli						=	igr.
		ntigram					

(= 1 centigramme).

100 milligra	mme	s (0·1	grm.)	=	11 grs.
(= 1 de	ecigra	mme).			
1 gramme	3.			=	151 grs.
4 grms					60 grs. (1 dr. Troy).
10 grms. (1 dec	agrami	me)	=	1 oz.
25 grms				=	7 oz.
28 grms				=	1 oz. (437.5 grs.).
56 grms				=	2 ozs.
100 grms. (togran	nme)	=	31 ozs.
112 grms				=	4 ozs. (1 lb.).
200 grms				=	7 ozs.
225 grms				=	8 ozs. (1 lb.).
250 grms			64 .	=	84 ozs.
450 grms				=	1 lb. (7,000 grs.).
500 grms.			1.	=	17 lb.
900 grms.				=	2 lbs.
1000 grms. (and the second se	=	21 lbs.
and the second sec		and a state of the	L LOUIS CONTRACT		

FREEZING MIXTURES.

Ingredients.	Parts by Weight.	Temperature reduced from 10° C. or 50° F. to
Hydrochloric Acid Sulphate of Sodium .	8 5}	$-17^{\circ} C. = +1^{\circ} F.$
Snow, or Fine-shaved Ice Chloride of Sodium		-18° C. $=0^{\circ}$ F.
Dilute Nitric Acid Sulphate of Sodium .	10	-19° C. = -2° F.
Dilute Nitric Acid Nitrate of Ammonium	$\begin{pmatrix} 4\\5\\6 \end{pmatrix}$	$-26^{\circ} \text{ C.} = -15^{\circ} \text{ H}$
Dilute Nitric Acid .	$\left\{\begin{array}{c} 0\\ 4\\ 9\end{array}\right\}$	$-29^{\circ} \text{ C.} = -20^{\circ} \text{ F.}$

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Grains.	Grammes.	Grains.	Grammes.	Grains.	Grammes.	Grains.	Grammes.
-5 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20* 21 22 23 24	B 0.0324 0.0648 0.1295 0.1943 0.2591 0.3239 0.3887 0.4535 0.5183 0.5831 0.6479 0.7128 0.7775 0.8422 0.9070 0.9719 1.0367 1.1014 1.1662 1.2310 1.2959 1.3607 1.4254 1.4902 1.5550	rg 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 54 55 56 57 58 59	2·3325 2·3973 2·4620 2·5269 2·5917 2·6564 2·7212 2·7860 2·9157 2·9804 3·0452 3·1100 3·1749 3·2395 3·3043 3·3691 3·4340 3·4340 3·4988 3·5441 3·5636 3·6284 3·6931 3·7580 3·8228	FD 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 87 88 90 91 92 93 94 95	$ \begin{array}{c} & \\ & & \\ $	5 107 108 109 109·4§ 110 120¶ 125 130 140 150 180 200 240 250 300 350 360 400 437·5 450 480** 500 550 600 650	6·9326 6·9974 7·0622 7·0882 7·1270 7·7750 8·0989 8·4228 9·0707 9·7186 11·6625 12·9583 15·5500 16·1975 19·4875 22·6773 23·3250 25·9168 28·3465 29·1563 81·1008 52·3960 35·6355 38·8751 42·1202
25 26 27 28	1.6198 1.6845 1.7493 1.8141	60 61 62 63	3·8875 3·9523 4·0171 4·0819	96 97 98 99	6.2200 6.2849 6.3497 6.4144	700 750 800 850	45°3543 48°5938 51°8335 55°0730
29 30 31 32 33 34	1.8790 1.9438 2.0085 2.0733 2.1381 2.2030	$ \begin{array}{r} 64 \\ 65 \\ 66 \\ 67 \\ 68 \\ 69 \\ \end{array} $	4.1467 4.2114 4.2762 4.3410 4.4059 4.4707	$ \begin{array}{r} 100 \\ 101 \\ 102 \\ 103 \\ 104 \\ 105 \end{array} $	6:4791 6:5439 6:6086 6:6734 6:7382 6:8030	900 950 960 1,000 7,000†† 8,750‡‡	58:3128 61:5523 62:2003 64:7920 453:544 566:930
35	2.2678	70	4.5354	106	6.8678		

TABLE SHOWING GRAINS CONVERTED INTO GRAMMES.

* Dj. ; + Jj. (fluid) ; ‡ Jj. ; § Jj. (fluid) ; ¶ Jj. ; || Jj. (avoir.) ** Jj. (troy); ++ 1 lb. (avoir.); ‡‡ O.j.

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DOSES OF THE COMMONER MATERIA MEDICA ARRANGED FOR CATTLE, HORSES, DOGS, ETC.

ORGANIC.

Ammoniacummore.Areca Nut $2 to 4 drms.$ $\frac{1}{2} to 2 drms.$ $\frac{1}{2} to 2 drms.$ Belladon, Pulv. $1 to 2 ozs.$ $\frac{1}{4} to 1 scr.$ $\frac{1}{2} to 5 grs.$ Belladon, Pulv. $1 to 2 ozs.$ $\frac{1}{4} to 1 scr.$ $\frac{1}{2} to 5 grs.$ Cambogia $\frac{1}{2} to 1 oz.$ $15 grs. to \frac{1}{2} dr.$ $2 to 5 grs.$ Cambaris $5 to 15 grs.$ $2 to 5 grs.$ $2 to 5 grs.$ Cansharis $5 to 15 grs.$ $2 to 5 grs.$ $2 to 5 grs.$ Capsici Pulv. $5 to 20 grs.$ $2 to 5 grs.$ $2 to 5 grs.$ Cascarille Cortex $2 drms. to \frac{1}{2} oz.$ $1 to 2 drms.$ $1 to 10 grs.$ Cinchone Cortex $2 drms. to \frac{1}{2} oz.$ $1 to 2 drms.$ $1 to 10 grs.$ Cinchone Cortex $2 drms. to \frac{1}{2} oz.$ $1 to 2 drms.$ $1 to 10 grs.$ Colchici Corm. $\frac{1}{2} to 4 drms.$ $1 5 to 30 grs.$ $1 to 10 grs.$ Digitalis Pulv. $3 to 40 grs.$ $5 to 10 grs.$ $1 to 10 grs.$ Gentiane Rad. $2 to 4 drms.$ $1 to 2 drms.$ $1 to 3 grs.$ Jalapa $g drm.$ $1 drm.$ $1 to 2 drms.$ $1 to 3 drops.$, Juniperi $1 drm.$ $2 to 5 0 ozs.$ $2 to 4 drms.$ $4 to 3 grs.$, Terebinth. $1 to 2 drms.$ $2 to 4 drms.$ $2 to 3 ozs.$, Dimetic $\frac{1}{2} oz.$ $2 to 4 drms.$ $1 to 2 0 mins.$, Terebinth. $1 to 3 drs.$ $2 to 3 drms.$ $2 to 3 drops.$, Dimetic $\frac{1}{2} oz.$ $1 to 2 0 drms.$ $1 to 3 grs.$, Dimetic $\frac{1}{2} oz.$	Name.	Horses and Cattle.	Sheep and Pigs.	Dogs.
Aloes Barbadoesfor horses, cattle even more.1 to 6 drms.20 to 120 grs.Ammoniacum 2 to 4 drms. $\frac{1}{2}$ to 2 drms.10 to 20 grs.Areca Nut 1 to 2 ozs. $\frac{1}{2}$ to 1 oz. $\frac{1}{2}$ to 2 drms.Belladon, Pulv. 1 to 2 ozs. $\frac{1}{2}$ to 1 scr. 2 to 5 grs.Cambogia $\frac{1}{2}$ to 1 oz. $\frac{1}{2}$ to 1 scr. 2 to 5 grs.Cambogia $\frac{1}{2}$ to 1 oz. $\frac{1}{2}$ to 1 scr. 2 to 5 grs.Cambogia $\frac{1}{2}$ to 2 drms. $\frac{1}{2}$ to 1 scr. 2 to 5 grs.Cantharis 5 to 10 grs. $\frac{1}{2}$ to 2 drms. $\frac{1}{2}$ to 6 d grs.Cascarille Cortex 2 drms. to $\frac{1}{2}$ oz 1 to 2 drms. $\frac{1}{2}$ to 6 d grs.Catechu $\frac{1}{2}$ to 4 drms. $\frac{1}{2}$ to 2 drms. $\frac{1}{2}$ to 5 grs. 1 to 1 drm.Colehici Corm. $\frac{1}{2}$ to 4 drms. $\frac{1}{2}$ to 2 drms. 1 to 10 grs. 1 to 10 grs.Interpret $\frac{1}{2}$ dr 4 drms. 1 to 2 drms. 1 to 10 grs. 1 to 10 grs.Interpret $\frac{1}{2}$ dr 4 drms. $\frac{1}{2}$ to 3 dros. $\frac{1}{2}$ to 3 grs. 1 to 10 grs.Nux Vonica $\frac{1}{2}$ drms. 1 to 2 drms. 1 to 2 dros. 1 to 3 dros. $\frac{1}{2}$ to 2 do 50 ozs. 1 to 2 drms. 1 to 2 dros. 1 to 3 dros. $\frac{1}{2}$ to 2 dros. 2 to 4 drms. 1 to 2 ozs. 1 to 3 dros. $\frac{1}{2}$ to 2 drms. 1 to 2 dros. 1 to 3 dros. 2 to 3 dros. $\frac{1}{2}$ to 2 dros. 2 to 3 drms. 1 to 3 dros.	Acid Tannicum .		6 to 15 grs,	1 to 4 grs.
Ammoniacum $2 to 4 drms.$ $\frac{1}{2} to 2 drms.$ $10 to 20 grs.$ Areca Nut $1 to 1 oz.$ $\frac{1}{2} to 1 oz.$ $\frac{1}{2} to 2 drms.$ $\frac{1}{2} to 2 drms.$ Belladon, Pulv. $1 to 2 ozs.$ $\frac{1}{4} to 1 sc.$ $\frac{1}{2} to 5 grs.$ $\frac{1}{2} to 5 grs.$ Cambogia $\frac{1}{4} to 1 oz.$ $\frac{1}{1} to 3 drms.$ $\frac{1}{2} to 1 sc.$ $\frac{1}{2} to 5 grs.$ Cambogia $\frac{1}{4} to 1 oz.$ $\frac{1}{5} to 1 sc.$ $\frac{1}{2} to 5 grs.$ $3 to 10 grs.$ Cambono $1 to 3 drms.$ $\frac{1}{2} to 1 grs.$ $2 to 5 grs.$ $3 to 10 grs.$ Canscarille Cortex $2 drms. to \frac{1}{2} oz.$ $1 to 2 drms.$ $1 to 2 drms.$ $\frac{1}{2} to 1 grs.$ Catechu $\frac{1}{2} to 2 drms.$ $\frac{1}{2} to 2 drms.$ $\frac{1}{2} to 1 grs.$ $\frac{1}{2} to 1 grs.$ Catechu $\frac{1}{2} to 2 drms.$ $\frac{1}{2} to 2 drms.$ $\frac{1}{2} to 2 drms.$ $\frac{1}{2} to 1 grs.$ Colchici Corm. $\frac{1}{2} to 4 drms.$ $\frac{1}{2} to 2 drms.$ $1 to 10 grs.$ $1 to 10 grs.$ Ergota $\frac{1}{2} to 4 drms.$ $\frac{1}{2} to 3 0 cs.$ $1 to 2 drms.$ $1 to 10 grs.$ Jalapa $\frac{1}{2} drms.$ $\frac{1}{2} dro 3 0 cs.$ $1 to 2 0 miss.$ $\frac{1}{4} to 3 drops.$ $\frac{1}{2} to 3 0 cs.$ $1 to 2 0 cs.$ $2 to 4 drms.$ $\frac{1}{2} to 3 0 cs.$ $\frac{1}{4} to 3 0 cs.$ $\frac{1}{2} to 3 0 cs.$ $1 to 2 0 drms.$ $3 drms.$ $2 to 3 drops.$ $\frac{1}{4} to 3 drops.$ $\frac{1}{2} to 1 \frac{1}{2} oss.$ $2 to 5 0 drops.$ $\frac{1}{2} to \frac{1}{2} drops.$ $\frac{1}{2} to \frac{1}{2} drops.$ $\frac{1}{2} to 1 \frac{1}{2} oss.$	Aloes Barbadoes	for horses, cattle even	1 to 6 drms.	20 to 120 grs.
Areca Nut $\frac{1}{2}$ to 1 oz.seldom given. $\frac{1}{2}$ to 2 drms.Belladon, Pulv.1 to 2 ozs. $\frac{1}{4}$ to 1 scr. $\frac{1}{2}$ to 5 grs.Cambogia $\frac{1}{4}$ to 1 oz. $\frac{1}{5}$ to 1 scr. $\frac{1}{2}$ to 5 grs.Cambono1 to 3 drms. $\frac{1}{2}$ to 1 scr. $\frac{1}{2}$ to 5 grs.Cantharis 5 to 15 grs. $\frac{1}{2}$ to 1 scr. $\frac{1}{2}$ to 6 grs.Cancharis 5 to 15 grs. $\frac{1}{2}$ to 1 scr. $\frac{1}{2}$ to 6 grs.Capsiei Pulv. 5 to 20 grs. 1 to 2 drms. $\frac{1}{4}$ to 6 grs.Catechu 1 to 3 drms. $\frac{1}{4}$ drm. 1 to 10 grs.Colchici Corm. $\frac{1}{2}$ to 2 drms. 5 to 10 grs. 1 to 3 grs.Digitalis Pulv. 3 to 40 grs. 5 to 10 grs. 1 to 3 grs.Colchici Corm. $\frac{1}{2}$ drm. 1 to 2 drms. 1 to 3 grs.Digitalis Pulv. 3 to 40 grs. 5 to 10 grs. 1 to 10 grs.Colchici Corm. $\frac{1}{2}$ drm. 1 to 2 drms. 1 to 3 grs.Jalapa 2 to 4 drms. 1 to 2 drms. 1 to 10 grs.Nux Vomica $\frac{1}{2}$ drm. 1 to 2 drms. 1 to 3 drops. γ Terebinth. 1 drm. 2 dro 3 ozs. 2 to 4 drms. γ Terebinth. 1 to 2 drms. 2 to 3 drops. 1 to 5 grs. γ Diuretic $\frac{1}{2}$ oz. 2 to 3 drms. 2 to 3 drops. γ Diuretic $\frac{1}{2}$ oz. 2 to 3 drms. 2 to 3 drops. γ Diuretic $\frac{1}{2}$ oz. 2 to 3 drops. $\frac{1}{4}$ to $\frac{1}{5}$ oz 3 grs. γ	Ammoniacum .	and the second se	1 to 2 drms.	10 to 20 grs.
Belladon, Pulv.1i to 2 ozs. $\frac{1}{4}$ to 1 scr. $\overline{2}$ to 5 grs.Cambogia $\frac{1}{4}$ to 1 oz.15 grs. to $\frac{1}{4}$ dr.2 to 5 grs.Camphor $\frac{1}{1}$ to 3 drms. $\frac{1}{4}$ to 1 scr.3 to 10 grs.Cantharis 5 to 10 grs.2 to 5 grs.2 to 5 grs.Capsici Pulv. 5 to 20 grs.2 to 5 drms. $\frac{1}{2}$ to 1 ogrs.Cascarillee Cortex 2 drms. to $\frac{1}{2}$ oz.1 to 2 drms. $\frac{1}{2}$ to 1 grs.Catchanis 1 to 3 drms. $\frac{1}{4}$ drm.1 to 10 grs.Cinchonæ Cortex 2 drms. to $\frac{1}{2}$ oz.1 to 2 drms. $\frac{1}{2}$ to 1 grs.Digitalis Pulv. 3 to 40 grs. 5 to 10 grs.1 to 3 grs.Digitalis Pulv. 3 to 40 grs. 5 to 10 grs.1 to 10 grs.Segnt. 2 to 4 drms. 15 to 3 grs.1 to 10 grs.Jalapaseldon given.1 to 2 drms.1 to 10 grs. γ Juniperi 1 drm.1 drm.1 to 2 drms.1 to 3 drops. γ Terebinth. 1 to 2 drms.1 to 2 drms.1 to 3 grs. γ Terebinth. 2 drms.2 dro 30 ozs.2 to 4 drms. γ Diurctic $\frac{1}{2}$ oz. 3 dr drms.2 to 3 grs. γ to 1 $\frac{1}{2}$ ozs. 2 to 3 drms. 1 to 2 grs. γ dr. 1 to 2 drms. 1 to 2 drms. γ Diurctic $\frac{1}{2}$ ozs. 2 to 3 drms. γ Diurctic $\frac{1}{2}$ ozs. 2 to 3 drms. γ Diurctic $\frac{1}{2}$ ozs. 2 to 3 drms. γ to 3 grs. 1 to 2 grs. γ to 3		the second s		
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Camphoriito 3 drms.iito 1 scr.3 to 10 grs.Cantharis5 to 15 grs.5 to 10 grs.2 to 5 grs.4 to 1 gr.Capsici Pulv.5 to 20 grs.5 to 10 grs.2 to 5 grs.1 to 1 drms.Cascarillæ Cortex2 drms. to $\frac{1}{2}$ oz.1 to 2 drms.1 to 1 drm.Catechu1 to 3 drms.4 drm.1 to 1 drm.Cinchonæ Cortex2 drms. to $\frac{1}{2}$ oz.1 to 2 drms.1 to 1 drm.Colchici Corm. $\frac{1}{2}$ to 4 drms.5 to 10 grs.1 to 3 grs.Digitalis Pulv.3 to 40 grs.5 to 30 grs.1 to 1 drm.Centianæ Rad.2 to 4 drms.1 to 2 drms.1 to 10 grs.Jalapaseldom given.1 to 2 drms.1 to 3 drops.Juniperi1 drm.10 to 15 grs.2 to 3 ozs.1 to 2 drms., Juniperi1 to 2 drms.1 to 2 drms.1 to 3 drops., Terebinth.2 drms.2 to 4 drms.5 to 10 grs.4 to 3 grs.Quininæ Sulph.2 to to 40 grs.5 to 10 grs.1 to 5 grs., Opium1 to 1 g ozs.1 to 1 grs.1 to 5 grs.2 to 3 drms.Piper. Nig.2 drms.1 to 2 drms.1 to 2 drms.2 to 3 grs.Quininæ Sulph.20 to 40 grs.1 to 1 grs.1 to 5 grs.1 to 5 grs.Strychnina1 to 3 grs.1 to 1 grs.5 to 10 grs.1 to 5 grs., Opii.1 to 3 ozs.2 drms. to 1 oz.1 to 4 ozs.2 to 3 drms., Opii.1 to 4 ozs.1 to 1 grs.1		1 to 1 or		
Cantharis 5 to 15 grs. 2 to 5 grs. 4 to 1 gr. Capsci Pulv. 5 to 20 grs. 5 to 10 grs. 2 to 5 grs. Cascarillæ Cortex 2 drms. to $\frac{1}{2}$ oz. 1 to 2 drms. 1 to 2 drms. Catechu . 1 to 3 drms. $\frac{1}{2}$ drm. 1 to 10 grs. Cinchona Cortex 2 drms. to $\frac{1}{2}$ oz. 1 to 2 drms. $\frac{1}{2}$ to 1 drm. Cinchona Cortex 2 drms. $\frac{1}{2}$ to 2 drms. $\frac{1}{2}$ to 1 drm. Digitalis Pulv. 3 to 40 grs. 5 to 10 grs. 1 to 3 grs. Ergota . 2 to 4 drms. $\frac{1}{2}$ to 2 drms. 1 to 10 grs. Jalapa . . 1 drm. 1 to 2 drms. 1 to 3 grs. Juniperi . 1 drm. 10 to 40 drops. 2 to 5 drops. 1 to 3 drops. , Juniperi . 1 drm. 10 to 20 mins. 4 to 3 grs. 2 to 3 ozs. , Terebinth. . 2 drms. 3 drms. 2 to 3 ogrs. 4 to 2 ozs. , Terebinth. . 1 to 1 grs. 2 to 3 ogrs. 1 to 2 drms. 1 to 5 grs. , Metini . . <t< td=""><td></td><td>I to 2 dame</td><td></td><td></td></t<>		I to 2 dame		
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Cascarillæ Cortex2 drms, to $\frac{1}{2}$ oz.1 to 2 drms.1 to 2 drms.Catechu1 to 3 drms. $\frac{1}{4}$ drm.1 to 10 grs.Cinchonæ Cortex2 drms, to $\frac{1}{2}$ oz.1 to 2 drms. $\frac{1}{4}$ drm.Colchici Corm. $\frac{1}{2}$ to 2 drms.5 grs. to 1 scr. $\frac{1}{2}$ to 1 drm.Colchici Corm. $\frac{1}{2}$ to 2 drms.5 grs. to 1 scr. $\frac{1}{2}$ to 3 grs.Ergota2 to 4 drms.1 to 2 drms.1 to 3 grs.Ergota2 to 4 drms. $\frac{1}{2}$ to 2 drms.1 to 10 grs.Jalapaseldom given. $\frac{1}{4}$ drm.10 to 15 grs.1 to 3 grs.Juniperi1 drm.10 to 40 drops.2 to 5 drops.1 to 3 drops., Juniperi1 drm.20 to 30 ozs.2 to 4 drms.10 to 20 mins., Terebinth.2 dr 3 ozs.10 to 20 grs.1 to 2 grs., Terebinth.2 drms.2 to 4 drms.2 to 3 ozs.Quinimae Sulph.20 to 40 grs.5 to 10 grs.1 to 5 grs.Resin1 to 1 $\frac{1}{2}$ ozs.2 to 3 drms.2 to 3 drms., Opii1 to 1 $\frac{1}{2}$ ozs.1 to 1 grs.1 to 5 grs., Opii1 to 3 grs.2 to 3 drms.1 to 3 grs., Colchici1 to 2 ozs.2 drms.2 to 3 drms., Colchici1 to 2 ozs.1 to 3 drms., Colchici1 to 2 ozs.1 to 3 drms., Colchici1 to 2 ozs.1 to 3 drms., Colchici1 to 2 ozs.2 to 3 drms., Colchici1 to 2 ozs.2 to 3 drms., Co	Capsici Pulv			
Catechu11to 3 drms. $\frac{1}{2}$ drm.1to 10 grs.Cinchonæ Cortex2 drms. to $\frac{1}{2}$ oz.1to 2 drms.1to 2 drms. $\frac{1}{2}$ to 1 drm.Colchici Corm. $\frac{1}{2}$ to 2 drms.5for 0 grs.1to 3 grs.1to 10 grs.Digitalis Pulv.3to 40 grs.5to 10 grs.1to 3 grs.1to 3 grs.Ergota22 to 4 drms.1to 2 drms.1to 3 grs.1to 10 grs.Jalapaseldom given.1to 2 drms. $\frac{1}{2}$ to 2 drms.1to 10 grs.Nux Vomica $\frac{1}{2}$ drm.10 to 15 grs.1to 3 drops. $\frac{1}{2}$ uriperi1drm.2to 5 drops.1to 3 drops. $\frac{1}{2}$ to 2 ors.10 to 20 mins.1to 3 ors.1to 3 grs.1 $\frac{1}{2}$ to 3 ozs.2to 3 drms.2to 3 grs.1to 3 grs. $\frac{1}{2}$ to 3 ozs.1to 1 grs.1to 5 grs.1to 5 grs. $\frac{1}{2}$ to 3 ozs.2to 3 drms.1to 5 grs.1to 5 grs. $\frac{1}{2}$ to 2 ozs.1to 2 grms.1to 5 grs.1to 5 grs. $\frac{1}{2}$ to 3 drms.2to 1 grs.1to 5 grs.1to 5 grs. $\frac{1}{2}$ to 3 grs.1to 2 drms.1to 5 grs.1to 5 grs. $\frac{1}{2}$ to 3 drms.1to 1 grs.1to 5 grs.1to 5 grs.<	Cascarillæ Cortex			15 to 60 grs.
Colchiei Corm. $\frac{1}{2}$ to 2 drms.5 grs. to 1 scr. $\frac{9}{2}$ to 5 grs.Digitalis Pulv. 3 to 40 grs. 5 to 10 grs. 1 to 3 grs.Ergota 2 to 4 drms. 15 to 30 grs. 1 to 10 grs.Gentianæ Rad. 2 to 4 drms. $\frac{1}{2}$ to 2 drms. 1 to 10 grs.Jalapa.seldom given. $\frac{1}{2}$ drm. 10 to 15 grs.Julapa $\frac{1}{2}$ drm. 10 to 15 grs. $\frac{1}{2}$ to 3 grs.Nux Vomica. $\frac{1}{2}$ drm. 10 to 15 grs. $\frac{1}{2}$ to 3 grs.Ol. Crotonis. 10 to 40 drops. 2 to 5 drops. 1 to 3 drops., Juniperi.1 drm. 20 to 30 ozs. 2 to 4 drms. 5 drops., Terebinth. $\frac{2}{2}$ drms. 2 to 4 drms. 10 to 20 mins., Terebinth. $\frac{2}{2}$ drms. 2 drms. 2 to 3 grs.Piper. Nig 2 drms. 3 drms. 2 to 3 grs.Quininæ Sulph 20 to 40 grs. 3 drms. 2 to 3 grs.Resin 1 to $\frac{1}{2}$ ozs. 2 to 3 drms. 10 to 30 grs.Strychnina 1 to 3 ozs. 2 drms. to 1 oz. 10 to 30 drops., Opii. 1 to 4 ozs. $\frac{1}{2}$ to $\frac{1}{2}$ ozs. 2 to 3 drms., Opii. 1 to 4 ozs. $\frac{1}{2}$ to 3 drms. 20 to 60 drops., Diftici. $\frac{1}{2}$ to 2 ozs. $\frac{1}{2}$ to 3 drms. 20 to 60 drops., Diftici. $\frac{1}{2}$ to 2 ozs. $\frac{1}{2}$	Catechu	. 1 to 3 drms.		1 to 10 grs.
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,, Nuc. Vom 1 to 1 oz. 1 to 2 drms. 10 to 30 drops	Threaten			
	Nuc Vom			
Zangiber 12 to 4 dring 14 to 2 dring 1 10 to 40 ore	Zingiber	2 to 4 drms.	to 2 drms.	10 to 40 grs.

INORGANIC.

Drugs.	Horses and Cattle.	Pigs and Sheep.	Dogs.
Acid Hydrocyanic . Alum. Sulph Ammoniæ Carb Ammon. Acet. Liq Ammonii Chlor Antim. Tart Arsenious Acid (white	20 to 30 drops. 2 to 4 drms. 1 to 2 drms. 4 to 8 ozs. 1 to 2 ozs. Alternative, 1 to 1 drm. Diaphor, 1 to 2 drms.	5 to 10 drops. 1 to 2 drms. 1 to 1 drm. 1 to 4 ozs. 1 to 2 drms. Emetic, 5 to 15 grs.	1 to 3 drops. 10 to 30 grs. 3 to 10 grs. ½ to 1 oz. 5 to 20 grs. Diaphor, ½ to 2 grs. Emetic, 1 to 4 grs.
Arsenious Acid (white arsenic) CarbolicAcid, liquefact. Cretæ Præpar Cupri Sulph Ether Sulph Ferri Sulph Hydrarg. Subchlor. { Hydrarg. c. Cretå . Iodum Magnes. Sulph Potass. Bicarb Magnes. Sulph Potass. Bicarb Nitras Nitras Sulphas Sulphas Tr. Ferri Perchlor	5 to 10 grs. 20 to 90 drops. 1 to 2 drms. 1 to 2 drms. 1 to 2 drms. 20 to 60 grs. 20 to 60 grs. (cattle less) Not used. 10 to 20 grs. 1 to 2 drms. 2 to 8 drms. 1 to 2 drms. 2 to 4 drms. 1 to 2 drms. 4 to 6 drms. 1 lb. 1 to 2 ozs. 3 to 4 ozs. 1 to 2 ozs. Tonic, 1 to 2 drms. Emetic.	1 to 2 grs. 5 to 15 drops. 2 to 3 drms. 10 to 20 grs. 2 drms. to ½ oz. 10 to 20 grs. 1 to 5 grs. Not used. 2 to 8 grs. 1 to 2 ozs. ½ to 2 drms. 20 to 40 grs. ½ to 1 drm. 20 grs. to 1 drm. 1 to 2 drms. 2 to 3 ozs. 2 to 4 drms. 2 ozs. 3 to 6 drms. 10 to 20 grs. 20 to 40 grs. 2 to 4 drms. 2 ozs. 3 to 6 drms.	 to to the gr. to 5 drops. to 15 grs. to 2 drms. to 2 drms. to 2 drms. to 10 grs. to 4 grs. Up to 8 grs. to 2 grs. to 4 drms. to 20 grs. to 20 grs. to 20 grs. to 10 grs. to 5 grs. to 3 drms. to 1 drm. ot 10 grs. to 1 drm. ot 10 grs. to 4 drms. do 5 grs. to 4 drms. do 5 grs. to 5 grs. to 10 grs. to 1 drm. ot 10 grs. to 1 drms. to 1 drss.

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Alc. Sol. Benzoic Acid.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
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Oil of Wintergreen.	100110
Oil of Orange.	
Oil of Lemon.	
Glycerine.	40 40 30 30 100 100 100 100 100 200 200 20
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Ethyl Gnanthate.	
Ethyl Nitrate.	100 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Ethyl Formate.	
Ethyl Butyrate.	10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10
Ethyl Benzoate.	
Ethyl Acetate.	
Chloroform,	00 10 10 10 20 10 10 10 10 10 10 10 10 10 10 10 10 10
Amyl Valerianate.	
Amyl Butyrate.	¹ ¹⁰⁰ ¹⁰⁰ ¹⁰⁰
Amyl Acetate.	Apple 20 Apricot 20 20 Banana 20 Black Cherry 10 Black Cherry 20 Cherry 20 Gooseberry 20 Grape 20 Melon 20 Drange 20 Peach 20 Plum 30 Strawberry 30
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added to 1,000 parts by measure of 90-per-cent, alcohol. The last four columns give the proportion of alcoholic solution of four organic acids. These solutions are to be prepared by dissolving the respective acids in cold alcohol (90 per cent.) to saturation.

THE THERMOMETER.

THE thermometric scales chiefly in use are those of Fahrenheit, Celsius (Centigrade), and Réaumur, the interval between the normal freezing- and boiling-points of water being respectively divided into 180, 100, and 80 degrees. The Réaumur scale is now but rarely used, Fahrenheit and Centigrade being employed in this country, and the latter especially on the continent.

To convert a given temperature in F. to C. (if above freezingpoint)-

Subtract 32, multiply by 5, divide by 9. If below 32° but above 0°.

Subtract from 32, multiply by 5, divide by 9. Express as minus.

If below 0° add 32, multiply by 5, divide by 9. Express as minus.

F. to R. Use the same rule, but multiply by 4 instead of 5.

C. to F. above 0°. Multiply by 9, divide by 5, and add 32.

If below 0°. Multiply by 9, divide by 5; if result is more than 32, subtract 32 from it, and express as minus, but if result is less than 32, subtract it from 32.

R. to F. Same rule, but divide by 4 instead of 5.

C. to R. Multiply by 4, divide by 5.

R. to C. Multiply by 5, divide by 4.

TABLE

SHOWING CENTIGRADE DEGREES AND THEIR EQUIVALENT ON FAHRENHEIT'S SCALE.

1 For the ready conversion of Centigrade into Fahrenheit degrees, the following table will be useful.

FOR TEMPERATURES BELOW THE FREEZING-POINT OF WATER

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39	38.2	32	25.6	2							
38	36.4	31	23.8	24							
37	34.6	30	22.0	2			- +	. 1			
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C.	F .	C.	F.	C.	F .	C.	F.	C.	F.	C.	F.
+	+	+	+	+	+	+	+	+	+	+	+
0	0	0	0	0	0	0	0	0	0	0	0
1	38.8	28	82.4	55	131.0	82	179.6	109	228.2	136	276.8
2	35*6	29	84.2	56	132.8	83	181.4	110	230.0	137	278.6
3	37.4	30	86.0	57	134.6	84	183-2	111	231.8	138	280'4
4 5	39.2	31	87.8	58	136.4	85	185.0	112	233.6	139	282.2
6	41.0 42.8	82 33	89.6 91.4	59	138.2	86	186.8	113	235.4	140	284.0
7	44.6	34	93.2	60 61	140.0	87	188.6	114	237.2	141 142	285*8 287*6
8	46.4	35	95.0	62	141.8 143.6	88 89	190 [.] 4 192 [.] 2	115 116	239·0 240·8	143	289.4
9	48.2	36	96.8	63	145.4	90	192 2	117	242.6	140	291.2
10	50-0	37	98.6	64	147.2	91	195.8	118	244.4	145	293.0
11	51.8	38	100.4	65	148.0	92	197.6	119	246.2	146	294.8
12	53.6	39	102.2	66	150.8	93	199.4	120	248.0	147	296.6
13	55.4		104.0	67	152.6	94	201.2	121	249.8	148	298.4
14	57.2	41	105.8	68	154.4	95	203.0	122	251.6	149	300.2
15	59.0	42	107.6	69	156.2	96	204.8	123	253.4	150	302.0
16	60.8	43	109.4	70	158.0	97	206.6	124	255.2	151	303.8
17	62.6	44	111.2	71	159.8	98	208.4	125	257.0	152	305.6
18	64.4	45	113.0	72	161.6	99	210.2	126	258.8	153	807.4
19	66.2	46	114.8	73	163.4	100	212.0	127	260.6	154	309.2
20	68.0	47	116.6	74	165.2	101	213.8	128	262.4	155	811.0
21	69.8	48	118.4	75	167.0	102	215.6	129	264-2	156	812.8
22	71.6	49	120.2	76	168.8	103	217.4	130	266.0	157	814.6
23	73.4	50	122.0	77	170.6	104	219.2	131	267.8	158	316.4
24	75.2	51	123.8	78	172.4	105	221.0	132	269.6	159	318.2
25	77.0	52	125.6	79	174.2	106	222.8	133	271.4	160	320.0
5307	78-8	53	127.4	80	176.0	107	224.6	134	278-2	161	321.8
26 27	80.6	54	129.2	81	177.8	108	226.4	135	A	1 AVA	0 1 40

P

FOR TEMPERATURES ABOVE THE FREEZING-POINT OF WATER.

C.	F.	C.	F.	C.	F.	C.	F.	C.	F.	C.	F.
+	+	+	+	+	+	+	+	+	+	+	+
163	825.4	203	397.4	0 243	469.4	0 283	541.4	0 000	0	0	COTA
164	327.2	204	399.2	240	471.2	285	541·4 543·2	323 324	613.4	363 364	685'4 687'2
165	329 0	205	401.0	245	473.0	285	545.0	325	615·2 617·0	365	689.0
166	330.8	206	402.8	246	474.8	286	546.8	326	618.8	366	690.8
167	332.6	207	404.6	247	476.6	287	548.6	827	620.6	867	692.6
168	334.4	208	406.4	248	478.4	288	550.4	328	622.4	368	694.4
169	336-2	209	408.2	249	480.2	289	552.2	329	624.2	369	696.2
170	338.0	210	410.0	250	482.0	290	554.0	330	626.0	370	698.0
171	339.8	211	411.8	251	483.8	291	555.8	331	627.8	371	699.8
172	341.6	212	413.6	252	485.6	292	557.6	332	629.6	872	701.6
173	343.4	213	415.4	253	487.4	293	559.4	333	631.4	373	703.4
174	345.2	214	417.2	254	489.2	294	561.2	334	633-2	874	705-2
175	347.0	215	419.0	255	491.0	295	563.0	335	635.0	\$75	707:0
176	348.8	216	420.8	256	492.8	296	564.8	336	636.8	376	708.8
177	350.6	217	422.6	257	494.6	297	566.6	337	638.6	377	710.6
178	352.4	218	424.4	258	496.4	298	568.4	338	640.4	378	712.4
179	354.2	219	426.2	259	498-2	299	570.2	339	642.2	379	714.2
180	356.0	220	428.0	260	500.0	300	572.0	340	644.0	380	716.0
181	357.8	221	429.8	261	501.8	301	573.8	341	645.8	381	717.8
182	359.6	222	431.6	262	503.6	302	575.6	342	647.6	382	719.6
183	361.4	223	433.4	263	505.4	303	577.4	343	649.4	383	721-4
184	363.2	224	435.2	264	507.2	304	579-2	344	651.2	384	723.2
185	365.0	225	437.0	265	509.0	305	581.0	345	653.0	385	725.0
186	366.8	226	438.8	266	510.8	306	582.8	346	654.8	386	726.8
187	368.6	227	440.6	267	512.6	307	584.6	347	656*6	387	728.6
188	370.4	228	442.4	268	514.4	308	586.4	348	658-4	388	730-4
189	372.2	229	444.2	269	516.2	309	588.2	349	660.2	389	732-2
190	374.0	230	446.0	270	518.0	310	590.0	350	662.0	390	734-0
191	375-8	231	447.8	271	519.8	311	591.8	351	663-8	391	735-8
192	377.6	232	449.6	272	521.6	312	593.6	352	665.6	392	737.6
193	379.4	233	451.4	273	523.4	313	595.4	353	667.4	393	739.4
194	381.2	234	453.2	274	525-2	314	597.2	354	669-2	394	741-2
195	383.0	235	455.0	275	527.0	315	599.0	355	671.0	395	743:0
196	384.8	236	456.8	276	528.8	316	600.8	356	672.8	396	744.8
197	386.6	237	458.6	277	530.6	317	602.6	357	674.6	397	746.6
198	388.4	238	460.4	278	532.4	318	604.4	358	676-4	398	748.4 750.2
199	390.2	239	462.2	279	534.2	319	606.2	359	678-2	399 400	752.0
200	392.0	240	464.0	280	536.0	320	608.0	360	680.0	400	842*0
201	393.8	241	465.8	281	537-8	321	609.8	361	681.8		982.0
202	395-6	242	467.6	282	539.6	322	611.6	362	683-6	500	0020

SATURATION TABLE.

	/ 25	grs.	Bicarbonate of Potash.
1	00		Carbonate of Potash.
			Bicarbonate of Soda.
1			Carbonate of Soda.
		0	A 1 1 A 1

17 grains of Citric Acid or 35 of fresh Lemon Juice will neutralize

15 grs. Carbonate of Ammonia. 13 grs. Carbonate of Magnesia.

GAUBIUS' TABLE.

			the do					. 1	-	grains.
THE	uose	under	and the second se	WIII	00			and the second		2.9
			2 ,,	,,	22		1	and the second sec	or 8	33
33	33	,,	3 ,,	23	23			and the second second	or 10	23
22	3.9	29	4 ,,	"	77				or 15	,,
33	2.5	,,	7 ,,		23				or 20	,,
25	23	2.7	14 ,,	53	22			. 1	or 30	27
33	33	.,	20 ,,	23	23				or 40	* 23
		21 to	60 ,,	32	27	-	1.2.5	. 1	or 60	**

OR,

For children under 12 add 12 to the age, and divide the age by the amount thus obtained.

SPECIFIC GRAVITY.

RULES for taking the specific gravity of a fluid.

1. Divide the weight of the fluid by that of an equal volume of water.

2. Knowing the S.G. of a fluid, to find the weight of a pint or other liquid measure :---Multiply the S.G. by the required volume of water.

3. Knowing the weight of a given volume of liquid, to find its S.G.:—Divide the weight of it by the weight of an equal quantity of water.

For taking the S.G. of solid bodies.

1. For a solid in mass insoluble in water :---Weigh it in air, and then weigh in water; subtract the latter result from the former, and divide the weight in air by the difference.

2. For a powder insoluble in water :--Weigh the powder, then put it into a S.G. bottle, fill it up with water and weigh. Whatever the latter weight is in excess of the weight of the water the bottle is known to hold, is the weight of the powder in water. Proceed as in Rule 1.

3. For a solid in mass that is lighter than water :--Weigh the solid, then attach it to a small piece of lead of which the weight is known (to act as a sinker), and weigh both in water. We have thus---

 α . The weight of the light body in air.

- b. The weight of the sinker in water.
- c. The weight conjoined of the light body and sinker in water.

Deduct the weight of both in water from the weight of the sinker in water, add the weight of the light substance in air, and divide the weight of the light body in air by the product so obtained.

4. For solids soluble in water :--Proceed as in Rule 1, using turpentine or other liquid in place of water, and when the calculations are made, multiply the S.G. obtained, by the S.G. of the liquid used.

(S.G. of Spt. Turpent., '87.)

State of the second	15775		-		
				In water at 60° F.	In S.V.R.
Mcetanilid				1 in 200	1 in 10
Acid Arsenious	14			1 in 80	1 in 140
,, Benzoic			1000	1 in 30	
, Citric			1000000000	10.0	10 in 15
,, Oxalic				1 in 8	1 in 6
, Phenie		-	100	1 in 16	readily
", Tartaric					1 in 8
" Gallic				1 in 100	1 in 8
", Salicylic				H . MOO	readily
,, Tannie			100 C 100 C		
Alumen				1 in 10	insoluble
Ammon. Carb				1 in 4	slightly
,, Benzoat.					1 in 18
", Bromid				and the second sec	1 in 13
" Chlorid				1 in 4	1 in 55
,, Phosph				1 in 2	insoluble
Antipyrine.				1 in 1	readily
Antim. Tart	al and			1 in 20	slightly
Atropine	1			- ·	1 in 8
Butyl-Chloral Hydrate			-	1 in 50	1 in 1
Chloralamid				1 in 10	readily
Camphor				4 . 010	"
Chloroform	1.1.			1 in 100	"
Codeine				1 in 60	soluble
Ether (*720)				1 in 9	readily
Ferri Tart				1 in 4	_
", Sulph Hydrarg. Perchlorid		2.		1 in 12	insoluble
Hydrarg. Perchlorid				1 in 19	1 in 7
Lithia Citrat				1 in 23	
Carb.			122	1 in 100	insoluble
Magnes. Sulph				1 in 13	
Magnes. Sulph Morph. Hydrochlor				1 in 24	1 in 90
,, Acet				1 in 6	1 in 100
", Acet Plumbi Acet	Mil.	Charles and		1 in 25	
Potass. Bicarb	2		-	1 in 3	insoluble
				ALL DE LE DE	and a second

TABLE OF SOLUBILITIES.

		 	-			
					In water at 60° F.	In S.V.R.
Potass. Bicarbon					1 in 10	
", Bromid.					1 in 2	1 in 90
,, Chlorat.					1 in 16	_
,, Citrat.					10 in 6	insoluble
,, Iodid.					4 in 3	1 in 16
,, Nitras					1 in 4	
,, Perman	gan.					decomposed
Saccharin .					1 in 400	1 in 30
Sacch. Lact.					1 in 5	insoluble
Salicin.					1 in 28	
Sodn Bicarb.					1 in 10	
,, Bibor.					1 in 22	-
,, Salicyl.					1 in 1	1 in 44
", Hypoph	osph.				1 in 2	slightly
,, Sulph.					1 in 3	-
", Tart.					1 in 2	insoluble
,, Phosph.					1 in 5	-
Sulphonal .					1 in 450	1 in 65
Thalline Sulph					1 in 7	1 in 100
Urethane .					1 in 1	
Zinc. Sulph.				•	N 43 8 14	insoluble

TABLE OF SOLUBILITIES-continued.

MATURAL ORDERS,	Active Principles.	Gummic Acid and Arabin. (Aconitina, Aconella, and Aconitic Acid, etc. Aloin and Aloetic Acid, etc. Aloin and Amygdaline. Emulsine and Amygdaline. Emulsine. Herperidin.
ORGANIC MATERIA MEDICA. Pharmacopera and Botanical Names, Natural Orders, Habitats, and Active Principles.	Habitat.	Cordofan, in Eastern Africa Germany or Britain Domesticated everywhere . Barbadoes
SANIC MATH MACOPEIA ANI TATS, AND AC	Natural Order.	Leguminosæ Ranunculaceæ Pachydermata Lilliaceæ Umbelliferæ . var.amara Ros- var.dulcis aceæ Graminaceæ . Umbelliferæ . Umbelliferæ . Compositæ Compositæ Cruciferæ Umbelliferæ Aurantiaceæ .
TABLE GIVING BRITISH PHAR HABL	Obtained from.	{Acacia, Senegal and other species
TABLE G	B. P. Name.	Acacia

Active Principles.	Cinnamein and Styraein. { Cinnamein, Styraein, and Tolene. Atropina and Asparagin, and Benzoic Acid. Benzoic Acid. Barosmin or Diosmin. Barosmin or Diosmin. Calumbine, Calumbic Acid, and Berberine. Cambogic Acid. Cambogic Acid. Camphorie and Camphor- etic Acids. Mannite, Sugar, and Starch. Cannabin. Cambin. Carrene and Carvol. Caryophylline. Caryophylline.
Habitat.	Salvador, in Central America Cinnamein and Styracin, New Granada (Cinnamein, Styracin, Malabar and Coromandel (Cinnamein, Styracin, (Leaves) Britain, (Root) Britain, Germany Siam and Sumatra Benzoic Acid. Cape of Good Hope Benzoic Acid. (Imported from Batavia) Calumbine, Calumbic A and Berberine. (Imported from and Japan (purified here) Canubogic Acid. (India Cambogic Acid. (India Canubogic Acid. </td
Natural Order.	Leguminosae . Leguminosae . Aurantiaceae . Atropaceae Styraceae Rutaceae Myrtaceae Mutaceae Guttiferae Lauraceae Canellaceae Canellaceae Canelliferae Solanaceae Solanaceae Byrtaceae Euphorbiaceae .
Obtained from.	Myroxylon Pereiræ Myroxylon Toluifera Ægle Marmelos Atropa Belladonna Atropa Belladonna Styrax Benzoin Styrax Benzoin Styrax Benzoin
B. P. Name.	Bal samum Peruvianum Balsamum Balsamum Balsamum Belae Fructus Belladonna Benzoinum Buchu Folia Cajuputi Oleum Cajuputi Oleum Cajuputi Oleum Cajuputi Oleum Cajuputi Oleum Canubes Radix Canubes Radix Canubes Albe Canubogia Cambora { Cannabis Indica Cantharis Cortex } Carvi Fructus . Carvophyllum . Carvophyllum .

Active Principles.	lies itory itory Eastern Fastern Fastern Cerotin. Oceans Peru Peru Peru Peru Peru Peru Perotin. Conine and Cinchonidine. Colocynthin. Coloc
Habitat.	East and West Indies Hudson's Bay Territory Singapore, and other Singapore, and other Archipelago. Indigenous Pacific and Indian Oceans North of Europe North of Europe Northern Peru. Loxa, in Ecuador Loxa, in Ecuador Ceylon Mestern slopes of Chimbonazo America America Ceylon
Natural Order.	Leguminosae . Rodentia Cinchonaceae . Hymenoptera . Oetacea Licchenes . Cinchonaceae . Cinchonaceae . Cinchonaceae . Cinchonaceae . Ranunculaceae . Ranunculaceae . Ranunculaceae . Ranunculaceae . Cucurbiterae . Melanthaceae . Umbelliferae . Umbelliferae . Umbelliferae . Umbelliferae . Umbelliferae .
Obtained from.	Cassia Fistula
B. P. Name.	Cassiae Pulpa . Castoreum

Active Principles.	Cubebin. Cubebin. Angusturin. Koussine. Digitalin, Digitoxin. Koussine. Momordicine (Elaterine). Amyrin. Ergotine and Ecboline. Ergotine and Ecboline. Cholesterine. Cholesterine. Cholesterine. Filicic Acid and Glyceride of Filoxylin. Umbelliferone. Tannic, Gallie and Ellagie Acids. Gentianic Acid and Gentio- Pierin.
Habitat.	Hindostan, Ceylon, and Java Indian Archipelago Java Tropical South America Tropical South America Abyssinia Indigenous Indigenous Manilla America Manilla America Indigenous Manilla America Indigenous South of Europe Manilla America Indigenous Matia Indigenous Australia Indigenous Indigenous Indigenous Indigenous Indigenous Indigenous Indigenous Indigenous Indigenous Indigen
Natural Order.	Euphorbiaceæ Piperaceæ Rutaceæ Rutaceæ Rosaceæ Scrophulariaceæ Solanaceæ . Cucurbitaceæ . Cucurbitaceæ . Amyridaceæ . Celastraceæ . Myrtaceæ . Graminaceæ . Ruminantia . Ruminantia . Ruminantia . Ruminantia . Ruminantia . Ruminantia . Ruminantia . Ruminanteæ . Cupuliferæ Cupuliferæ . Cupuliferæ . Cupuliferæ . Cupuliferæ . Cupuliferæ . Cupuliferæ .
Obtained from.	Croton Tiglium
B. P. Name.	Croton

Active Principles.	Glycyrrhizine and Aspara- gine. Cellulin or Lignin. Cellulin or Lignin. Punicine. Punicine. Guaiacio, Guaiantie, and Guaiaconic Acids. Hematoxyline. Hemidesmic Acid.	Hydrastin. Gluten Starch and Gum. Hyoscyamina. Hamanelin. Emetina and Cephaëlic Acid. Pilocarpina and Jaborina. Convolvulina and Jalapina.
Habitat.	England	North America
Natural Order.	Leguminosæ . Malvaceæ Granateæ Zygophyllaceæ. Sapotaceæ Leguminosæ . Asclepiadaceæ	Ranunculaceae Graminaceae . Atropaceae Hamamelidaceae Cinchonaceae . Rutaceae Convolvulaceae
Obtained from.	Glycyrrhiza glabra	Hydrastis Canadensis . Hordeum distichon Hyoscyamus niger Hamamelis Virginica . Cephaëlis Ipecacuanha Pilocarpus pennatifolius Pilocarpus pennatifolius ium Purga
B. P. Name.	Glycyrrhizae Radix	Hydrastis Rhizoma . Hordeum De- corticatum Hyoscyami Folia . Cortex . Jaborandi Jalapa

1	
Active Principles.	Rottlerina and Tannic Acid. (Mimo-Tannic Acid and Catechin. Rhatanin, etc., and Kram- eric Acid. Larixin and Tannic Acid. Larixin and Tannic Acid. Larixin and Tannic Acid. Amygdaline and Emulsine. Marygdaline and a glyceride of Linoleic Acid. Palmitine and a glyceride of Linoleic Acid. Tannic Acid. Mannite. Mannite. Marthic Acid. Marthic Acid. Marthic Acid. Marthic Acid. Marthic Acid. Marthic Acid. Marthic Acid. Marthic Acid. Marthin.
Habitat.	North of Europe, indigenous India
Natural Order.	Coniferæ Euphorbiaceæ . Leguminosæ . Polygalaceæ . Ruminantia . Coniferæ Rosaceæ Labiatæ Aurantiaceæ Lobeliaceæ Lobeliaceæ Dleaceæ Piperaceæ Hymenoptera . Labiatæ Hymenoptera . Labiatæ
Obtained from.	Juniperus communis Mallotus phillpinen- sis or Rottlera pterocarpus Marsupium Krameria triandra Bos Taurus Bos Taurus Bos Taurus Lazix Pinus Prunus Laurocerasus . Lavandula vera Citrus Limonum Uitrus Limonum Frandula vera Citrus Limonum Frandula vera Montha piperita Mentha piperita Mentha viridis Mentha viridis
B. P. Name.	Juniper

Active Principles.	Malie Acid and Sugar.	1	1	Myristicin. Myrrhol and Myrrhin.	Nectandrina and Beberina. Strynina, Brucina, Igasuri-	Olein (liquid), Margarine (solid).	Morphina, Codeina, Thebai-	(phina, Meconic Acid, etc.	Cissapeline or Pelosine.	Eserina or Physostigmina.
Habitat.	Indigenous . Cultivated in Britain; na- tive of Persia and China		Imported from China;	(Banda Islands of the Ma- layan Archipelago) Arabia Felix and Abyssinia	British Guiana	South of Europe	Asia Minor (Smyrna)	Domesticated everywhere . Britain	Brazil	Western Africa
Natural Order.	Graminaceæ . Moraceæ	{(Genus) Acipenser }	Ruminantia .	Myristicaceæ . Amyridaceæ .	Lauraceæ Loganiaceæ .	Oleaceæ	Papaveraceæ .	(Class) Aves . Papaveraceæ .	Menispermaceæ	Leguminosæ .
Obtained from.	Triticum vulgare	Gadus Morrhua	Moschus moschiferus .	{Myristica officinalis , fragrans . Balsamodendron Myrrha	Nectandra Rodiæi Strychnos Nux-vomica.	Olea Europæa	Papaver somniferum .	Gallus Banckiva Papaver somniferum .	Chondodendron tor-	Physostigma venenosum
B. P. Name.	Mica Panis Mori Succus .	Morrhuæ Oleum	Moschus	Myristica	Cortex	Olivæ Oleum	Opium	Ovi Vitellus Papaveris Cansulae	Pareiræ Radix .	Physostigma- tis Faba . }

B, P, Name.	Obtained from.	Natural Order.	Habitat.	Active Principles.
Pimenta Piper nigrum .	Eugenia Pimenta Piper nigrum	Myrtacea Piperacea Conifera	West Indies	Volatile Oil.
Pix liquida Podophylli)	Pinus Picea	Coniferae	Scotland, Denmark, and North America	Podonhvllin. etc.
Prunum	Fouopnymum permanun Prunus domestica	-0	Southern Europe	
Pterocarpi Lignum . }	Pterocarpus santalinus	Leguminosæ .	Ceylon	Santalin.
Pyrethri Radix . Quassiæ Lignum	Anacyclus Pyrethrum	Compositæ Simarubaceæ .	Levant.	Pyrethrin, Pyrethric Acid. Quassine.
Quereus Cortex	Quercus pedunculata	Cupuliferee	Britain	1
Resina	Pinus et Abies	Conifera	America	1
	Rhamnus Frangula	Rhamnaceæ .	America	1
Rhamni Pur- shiani Cortex	Rhamnus Purshianus .	Rhamnaceæ .	. 0	-
Rhei Radix	{ Rheum, Palmatum, } and other species }	Polygonaceæ .	Thill Suc	{ Chrysophanic and Tannic Acids.
Rhœados Petala Ricinus	Papaver Rhoeas Ricinus communis	Papaveraceæ . Euphorbiaceæ .	Indigenous	Rhœadin.
Rosæ Caninæ Fructus	Rosa canina]		Indigenous	1
Rosæ Centifo- }	Rosa centifolia	Rosacese	Britain	1
Rose Gallica Petala }	Rosa Gallica J		Britain	1

Active Principles.	Volatile Oil. Veratrina. Bantonin. Bantonin. Senegina. Scillitin. Scoparine and Sparteina. Senegina. Cathartine. Cathartine.
Habitat.	South of Europe, Asia Mi- land South of Europe Mexico Mexico Mexico Britain West Indies Pomesticated everywhere Indigenous Indigenous Russia Syria and Asia Minor Syria and Asia Minor Asia Minor Mediterranean Indigenous Syria and Asia Minor Surth America North America North America Syria and Isia Minor Asia Minor Asia Minor Surface Surface Souther India
Natural Order.	Labiatæ Rutaceæ Melanthaceæ . Coniferæ Graminaceæ . Ruminantia . Caprifoliaceæ . Ruminaceæ Smilaceæ Smilaceæ Convolvulaceæ Lauraceæ Leguminosæ . Polygalaceæ . Leguminosæ . Leguminosæ . Leguminosæ .
Obtained from.	Rosmarius officinalis Ruta graveolens . Schoenocaulon offici- Schoenocaulon offici- Juniperus Sabina Juniperus Sabina Saccharum officinarum . Bos Taurus Bos Taurus Saccharum officinalis Saccharum officinale Sambucus nigra Sarentas officinale Sunlax officinale Sunlax officinale Convolvulus Scammonia Strophanthus hispidus Urginea Scilla Sarothamnus scoparius Polygala Senega Cassia acutifolia Cassia acutifolia
B, P. Name.	Rosmarinus

Active Principles.	Volatile Oil and Tannin. (N. Myronate of Potassium. (A. Sulpho-Sinapisin. Delphinina. Bityrol and Styracin. Styrol and Styracin. Angelic Acid. Nicotina and Nicotiana. Taraxacine. Theobromine. Arabin. Arabin. (Tannic Acid, Arbutin, and Ursone. Viridia and Viratroidea.
Habitat.	{Southern parts of North America
Natural Order.	Aristolochiaceæ Cruciferæ Atropaceæ Ranunculaceæ (Liquidam- Daraceæ Umbelliferæ Atropaceæ Compositæ Comferæ Coniferæ Stereuliaceæ Coniferæ Ericaceæ Ulmaceæ Valerianaceæ . Melanthaceæ . Melanthaceæ . Melanthaceæ .
Obtained from.	Aristolochia serpentaria Aristolochia serpentaria Brassica Nigra and Alba
B. P. Name.	Serpentarise Radix

MEDICINE CHESTS FOR SHIPS.

Hints as to Fitting, with Official List of Medicines and Medicaments issued by the Board of Trade.

THE following hints will be found useful by those who wish to add this branch to their business, and have not had previous experience.

In large vessels, such as ocean-going steamers carrying a number of passengers, a dispensary, or medical cabinet, is generally fitted on board, with the usual drugs and medical stores on a large scale, which is administered under the care of the doctor. In other ships, like those of the ordinary mercantile marine, medicines are kept in suitable chests, the size of the latter varying in proportion to the number of crew carried. The Merchant Shipping Act, passed in 1867, provides that all sea-going vessels carrying over a certain number of men must provide suitable medical stores, as laid down by the Act. It further sets forth a list of medicines, etc., giving the quantities it is necessary to carry, according to the number of the crew. These regulations are supposed to be looked after by the Board of Trade officials. In vessels carrying emigrants the supply of drugs must necessarily be large, including sets of medical instruments, and any special stores the doctor may desire are usually supplied. Medicine chests for new ships are sometimes made by the shipbuilder, then sent to the chemist to be fitted and filled, but as a rule they are supplied by the chemist complete. They are generally constructed of hard wood, such as mahogany, teak, pine, etc., brass bound or plain, according to the estimate of cost given, with the name of the ship engraved on a brass plate and affixed to the lid. Cheaper chests are made of commoner wood, painted and grained, and fitted with corked bottles, the better class chests usually being furnished with stoppered bottles. The chest is divided into two parts, the upper having compartments for bottles and jars, the lower being occupied by a drawer to hold the more bulky articles. A rack arrangement inside the lid holds the spatulas, syringes, scissors, etc., the chest being secured by a good lock and key. The drawer should be fitted with compartments to hold linseed meal, Epsom salts,

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mortar, and other sundries. A chest for a vessel carrying a crew of from 25 to 30 men should measure about 3 ft. long by 2 ft. in width and depth, and be fitted with 12 1-lb. bottles, 15 $\frac{1}{2}$ -lb., 10 $\frac{1}{4}$ -lb., 8 2-oz., and 4 10-oz., also 5 or 6 ointment jars. They may be filled as follows—

Balsam of Copaiba	1	1b.	Dover's Powder 11b.
Black Draught		and the second se	Dover's Powder 1 lb.
Bicarbonate of Soda .			Ipecacuanha Powder . 1,,
Black Week	1	10.	Quinine
Black Wash Castor Oil	1	22	Spirit of Nitrous Ether 4,,
Castor Oil	3	Ibs.	Sulphate of Zinc . 1,
Olive Oil	1	Ib.	Tincture of Hyoscy-
Opodeldoc	1	22	amus 1,,
Tincture of Rhubarb .	1		Essence of Peppermint 2 ozs.
Cream of Tartar	-		Essence of Ginger . 2 ,, Blue Pills
Laudanum	-		Blue Pills 3 doz.
Nitrate of Potassium .	i		Cough Pills 6 ,,
Aromatic Spirit of Am-			Cough Pills 6 ,, Opium Pills 3 ,,
monia	1		Purging Pills 8 "
Paregoric Elixir.	1	"	Mild Pills 8 "
Gregory's Powder .		,,	Lunar Caustic 1 oz.
Turpentine Liniment .		37	Iodoform 1 ,,
Elixir of Vitriol.		23	Salicin 1
Spirit of Hartshorn .			Salicin 1 ,, Blistering Fluid . 1 ,,
Bromide of Potassium.			Resin Ointment . 10 ozs.
Spirit of Chloroform .		22	Mercurial Ointment . 1 lb.
		"	Simple Ointment . 1 ,,
Jalap Camphor	1	"	Sulphur Ointment . 1 "
Tincture of Iron .	21	,,,	
Tincture of from .	404	33	Compound Gall Oint-
Friar's Balsam	101	5 3 9	ment
Alum	14	2 2 2	Carbolic Acid 2 gals.
Alum	1		Epsom Salts 12 lbs.
Iodide of Potassium .		3.7	Linseed Meal 28 ,,
Diarrhœa Powder .			

SUNDRIES AND MEDICAL STORES.

Adhesive plaster on unbleached calico, 3 yards in tin case, lint 1 lb., set of apothecaries' scales and weights, 1 graduated drop measure, 1 graduated 2-oz. measure marked in tablespoons, 1 dozen 6-oz. bottles, 2 dozen corks for same, scissors, 4 metal

syringes, lancet, abscess lancet, 6 bandages, 4 triangular bandages, 2 flannel bandages, 6 yards of calico, 6 yards of flannel, meedles, pins, thread and tape, 1 set of splints, 1 enema syringe, 11 pewter cup, 1 teaspoon, 1 set of bougies, an Esmark's tourniequet, 1 No. 8 gum elastic catheter, 3 reversible trusses, 36inch; 3 sponges, 1 lb. plaster of Paris, 1 bedpan, 1 spatula, a INo. 2 Wedgwood pestle and mortar, slab, and an authorized ship captain's Medical Guide. According to the new scale, issued by the Board of Trade, which came into operation con January 1, 1891, the following medicines are tabulated sas useful additions, and most of them are now included in the ship's chest :-- Fruit saline, diarrhœa mixture, seidlitz powder, ttartaric acid, chlorodyne, tonic tincture, citrate of magnesia, vaseline, tartar emetic, creosote, toothache drops, croton oil, calomel, blue stone, sulphuric ether, and fireman's cramp mixture. Such compounds as the diarrhœa and cramp mixtures sshould be labelled with explicit directions as to their use. After filling the bottles, the stoppers or corks should be capped. For this purpose, split skin or leather is best and lasts longest. As a cheaper capping, parchment paper or red capping paper is ssometimes used. The bottles should be labelled across the top of the shoulder, so that the names may be read without removing them from their places. Labels may be purchased in books at most medical printers, specially adapted for the purpose. The old practice of numbering the bottles according to the Medical Guide is now seldom done, the name of the drug or preparation being sufficient.

The bottles should be packed in their compartments with wool or tow, to prevent shaking about and risk of breakage, the larger sundry articles being placed, neatly labelled and wrapped, in the large drawer. After checking each article and instrument according to list, to make sure nothing has been omitted, the tchest may be said to be complete.

REFILLING CHESTS.

Each time a vessel returns to port from a voyage, the stores are overhauled and the wants noted. The chemist receives his order to attend to the medicine chest, and sends to the ship for a list of the medical requirements.

Sometimes the bottles only that have been opened or emptied

are taken and refilled, but it is the best plan to remove the chest if possible and overhaul it thoroughly.

With respect to the bottles the contents of which have been but part used, the remainder if in good condition may be allowed to remain. Solids and powders that have not become damp may also be utilized. Other articles in the sundry drawer if used up or spoiled must be re-supplied, wrapped, and labelled as before, and the chest cleaned and finished as when first sent out. The price charged for refilling bottles is usually below the ordinary retail for drugs and sundries. The prices for supplying new chests, fitted complete, varies considerably, and largely depends on the finish, size, and materials used.

The following is the official list of medicines and medicaments, alphabetically arranged, as issued by the Board of Trade, giving the necessary proportions for ships to carry, according to the number of the crew.

	10 men and under	11 to 20 inclusive.	21 and upwards.	
Alum	1 oz.	2 ozs.	3 ozs.	
Balsam Copaiba	4 ozs.	8 ,,	12 ,,	
Bicarbonate of Soda	8 ,,	12 ,,	16 ,,	
Black Draught	1 pt.	2 pts.	3 pts.	
,, Wash	1 ,,	2 ,,	2 ,,	
Blistering Fluid	1 oz.	1 oz.	1 oz.	
Bromide of Potassium	3 ,,	5 ,,	8 ,,	
Camphor	2 ,,	4 ,,	6 ,,	
Carbolic Acid Liquid	1 gal.	1 gal.	2 gals.	
Or Carbolic Acid Crystal .	4 [°] lbs.	8 lbs.	16 lbs.	
"Jeye's Purifier	4 gals.	8 gals.	16 gals.	
"Sanitas	9	1	8 ,,	
"Juson's Liquid Disin-	4 33	* ,,	- , ;	
fectant	1 gal.	2	4	
"Fletcher's Pino Phenol	- Sar	2 ,,	· · · ·	
10 · · · ·	4 gals.	8	16 .,	
		9	1	
,, Baird's Liquid Neosote	1 gal.	4 ,,	т "	
" Garraway's Red Cross	11 mla	3	ß	
Disinfectant	$1\frac{1}{2}$ gals.	0 ,,	6 ,,	

Proportions for Ships carrying the Undermentioned Number of Men and Boys for 12 Months' Voyage.

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and the second sec	10 men	11 to 20	21 and		
	and under.	inclusive.	upwards.		
On Panna's Disinfectant					
Or Penny's Disinfectant or Deodorizer.	11 mala	3 gals.	6 gals.		
"Burnett's Chloride of	$1\frac{1}{2}$ gals.	3 gals.	6 gals.		
Time		9	4		
,, Condy's Crimson Fluid	$\begin{array}{c}1 \text{ gal.}\\\frac{1}{2} \text{ pint}\end{array}$	2 ,, 1 pint	1 pint.		
, Red Cross Antiseptic	3 hur	r pine	r pint.		
Fluid.	1	1,,	1,,		
Marton Oil	1 lb.	2 lbs.	3 lbs.		
This Ethan	0	E	0		
Desam of Poston	2 ozs.	o ,, 4 ozs.	8 ozs.		
Elizin of Vitrial		0	10		
Epsom Salts	3 lbs.	6 lbs.	10 ," 12 lbs.		
Essence of Peppermint		1 oz.	2 ozs.		
,, ,, Ginger		1 ,,	2 ,,		
Friar's Balsam	6 ,,	6 ,,	6 ,,		
Goulard's Extract	1 oz.	2 ozs.	1		
Hodide of Potassium		2 ,,	4 ,, 4 ,,		
Hodoform	3 ii.	1 oz.	5 vi.		
Jalap	3 ozs.	5 ,,	8 ozs.		
Laudanum	2 ,,	4 ,,	8 ,,		
Linseed Meal		14 lbs.	28 lbs.		
Lunar Caustic	1 oz.	1 OZ.	1 oz.		
Nitrate of Potassium	2 ozs.	4 ozs.	8 ozs.		
Ointments-Basilicon	3 ,,	6 ,,	10 ,,		
", Mercurial	1 oz.	2 ,,	4 ,,		
,, Simple	6 ozs.	12 ,,	16 ,,		
,, Gall and Opium.	1 oz.	2 ,,	4 ,,		
,, Sulphur	6 ozs.	12 ,,	16 ,,		
Olive Oil		8 ozs.	12 ozs.		
Opodeldoc	3 ozs.	6 ,,	10 ,,		
Paregoric Elixir	4 ,,	6 ,,	8 ,,		
Pills-Blue	1 doz.	2 doz.	4 doz.		
" Cough	2 ,, 1 ,,	4 ,,	6 ,,		
" Opium	1 ,,	2 ,,	3 ,,		
" Purging	3 ,,	6 ,,	8 ,,		
Mild	3 ,,	6 ,,	8 ,,		
Powders, Compound Rhubarb		4 ozs.	8 ozs.		
" Diarrhœa	1 oz.	2 ,	3 ,,		
", Dover's '	1 ,,	2 ,,	3 ,,		

Powders, Ipecacuanha .		10 men and under.		11 to 20 inclusive.		21 and upwards.	
		1	oz.	2	ozs.	3	ozs.
Quinine, Sulphate		1	"	2	,,	3	,,
Salicin		2	OZS.	4	22	6	,,
Spirit Ammonia Arom		4	"	6		8	,,
Spirit of Nitrous Ether	r	1	23	2	,,	3	23
Spirit of Hartshorn		4	,,	6	33	10	,,
Sulphate of Zinc .		1		2	,,,	3	,,,
Sulphur, sublimed		2	lbs.	6	lbs.	8	lbs.
Fincture of Henbane		1	oz.	2	ozs.	3	ozs.
,, ,, Rhubarb		4	"	10		12	22
,, ,, Iron .		3	,,	6	,,	8	,,
Furpentine Liniment		2		4	,,	6	"

THE END.



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