

A series of botanical tables, and tables of the materia medica, designed for the use of students preparing for examination at Apothecaries' Hall : illustrated with numerous engravings on wood, and four coloured medico-botanical maps of Europe, Asia, Africa, and America, showing the geographical situation of all the plants of the Pharmacopœia / by W. K. Toase.

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A SERIES

OF

BOTANICAL TABLES,

AND

TABLES OF THE MATERIA MEDICA,

DESIGNED FOR THE

USE OF STUDENTS PREPARING FOR EXAMINATION AT APOTHECARIES' HALL.

ILLUSTRATED

WITH NUMEROUS ENGRAVINGS ON WOOD,

AND FOUR COLOURED MEDICO-BOTANICAL MAPS OF EUROPE, ASIA, AFRICA, AND AMERICA,

SHOWING THE

GEOGRAPHICAL SITUATION

OF

ALL THE PLANTS OF THE PHARMACOPEIA.

BY

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&c. &c.

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PATERNOSTER ROW.

1835.

ERRATA IN THE MAPS.

EUROPE.
 France, *for galica* *read gallica*
 Austria, — apoponax — opoponax

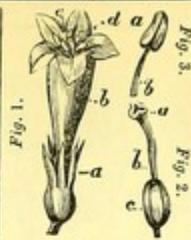
ASIA.
 Asia Minor, *for Stryax* *read Styra*
 Persia, — Modrus — Morus
 Hindoostan — Pterocarpus — Pterocarpus
 Ceylon — cassia — cassia
 Sumatra — beuzoin — benzoin

AFRICA.
 Egypt, *for usitalissimum* *read usitatissimum*
 Senegambia, — Pterocarpus — Pterocarpus

AMERICA.
 United States, *for marylandica* *read marilandica*
 Peru, — triandria — triandra

LINNÆUS has divided all plants into two grand classes, namely, those bearing conspicuous flowers, or *Phanerogamous* plants; and those without conspicuous flowers, or *Cryptogamous* plants. The last, or 24th class of his system, comprehends the latter; while, to the former division, belong all the preceding 23 classes.

Now, to understand these, a knowledge of the sexual organs of plants only is necessary; these are the *Stamens*, and *Pistils*, which are situated immediately within the centre of the flower. To illustrate them, let us take an example from a perfect flower,—the *Nicotiana tabacum*, or Tobacco plant (fig. 1.) The parts of this flower are (a) the calyx, or most external envelope, surrounding (b) the corolla, or blossom, which, in its turn



encloses (c) the *Stamens*, these being arranged around the most central part of the flower (d), the *Pistil*. The *Pistil* (fig. 2) is the female organ of reproduction, and consists of three parts; 1st, the *Stigma*, or summit, (fig. 2. a.); 2nd, the *Style* (fig. 2. b.) supporting the Stigma; and 3rd, the *Germen* or *Ovary* (fig. 2. c.) which ultimately becomes the seed vessel of the plant. The *Stamen* (fig. 3.) or male organ, consists of two parts; 1st, the *Anther* (fig. 3. a.) which contains a fine dust, called the *Pollen*, or fructifying principle; and 2nd, the *Filament*, (fig. 3. b.) or thread which supports the anther.—These parts being understood, the Student is prepared to comprehend the Linnæan Classification, which may be arranged as follows.

CLASS I.—MONANDRIA.
 FIG. 4.—Flowers having one stamen (fig. 4. a.)
ORDER 1. MONOGYNIA.
 With one pistil (fig. 4. b.)
 1. Curcuma longa.
 2. Eleteria cardamomum.
 3. Zingiber officinale.

CLASS II.—DIANDRIA.
 FIG. 5.—Flowers having two stamens (fig. 5. a.)
ORDER 1. MONOGYNIA.
 With one pistil (fig. 4. b.)
 4. Gratiola officinalis.
 5. Olea europæa.
 6. Rosmarinus officinalis.
 7. Salvia officinalis.
ORDER 3. TRIGYNIA.
 With three pistils (fig. 5. b.)
 8. Piper cubeba.
 9. — longum.
 10. — nigrum.

CLASS III.—TRIANDRIA.
 FIG. 6.—Flowers having three stamens (fig. 6. a.)
ORDER 1. MONOGYNIA.
 With one pistil (fig. 4. b.)
 11. Crocus sativus.
 12. Iris florentina.
 13. Valeriana officinalis.
ORDER 2. DIGYNIA.
 With two pistils (fig. 6. b.)
 14. Avena sativa.
 15. Hordeum distichon.
 16. Saccharum officinarum.
 17. Secale cornutum.
 18. Triticum hybernium.

CLASS IV.—TETRANDRIA.
 FIG. 7.—Flowers having four stamens (fig. 7.)
ORDER 1. MONOGYNIA.
 With one pistil (fig. 4. b.)
 19. Dorstenia contrajerva.
 20. Krameria triandra.
 21. Rubia tinctorum.

CLASS V.—PENTANDRIA.
 FIG. 8.—Flowers having five stamens (fig. 8. a.)
ORDER 1. MONOGYNIA.
 With one pistil (fig. 4. b.)
 22. Anchusa tinctoria.
 23. Atropa belladonna.
 24. Bomplandia trifoliata.
 25. Cephaelis ipecacuanha.
 26. Cinchona cordifolia.
 27. — lancifolia.
 28. — oblongifolia.
 29. Capsicum annuum.
 30. Chironia centaurium.
 31. Convolvulus jalapa.
 32. — scammonia.
 33. Datura stramonium.
 34. Diosma crenata.
 35. Hyoscyamus niger.
 36. Menyanthes trifoliata.
 37. Nicotiana tabacum.
 38. Rhamnus catharticus.
 39. Solanum dulcamara.
 40. Spigelia marilandica.
 41. Strychnos nux vomica.
 42. Vitis vinifera.
 43. Viola odorata.
ORDER 2. DIGYNIA.
 With two pistils (fig. 6. b.)
 44. Anethum graveolens.
 45. — feniculum.
 46. Angelica archangelica.
 47. Bubon galbanum.
 48. Carum carui.
 49. Conium maculatum.
 50. Coriandrum sativum.
 51. Cuminum cyminum.
 52. Daucus carota.
 53. Ferula assafoetida.
 54. Gentiana lutea.
 55. Heracleum gummiiferum.
 56. Pastinaca opopanax.

CLASS VI.—HEXANDRIA.
 FIG. 9.—Flowers having six stamens (fig. 9.)
ORDER 1. MONOGYNIA.
 With one pistil (fig. 4. b.)
 63. Acorus calamus.
 64. Allium cepa.
 65. — porrum.
 66. — sativum.
 67. Aloe spicata.
 68. — vulgaris.
 69. Scilla maritima.
ORDER 2. DIGYNIA.
 With two pistils (fig. 6. b.)
 70. Rumex acetosa.
ORDER 3. TRIGYNIA.
 With three pistils (fig. 5. b.)
 71. Colchicum autumnale.

CLASS VII.—HEPTANDRIA.
 FIG. 10.—Flowers having seven stamens (fig. 10.)
ORDER 1. MONOGYNIA.
 With one pistil (fig. 4. b.)
 72. Æsculus hippocastanum.
CLASS VIII.—OCTANDRIA.
 FIG. 11.—Flowers having eight stamens (fig. 11.)
ORDER 1. MONOGYNIA.
 With one pistil (fig. 4. b.)
 73. Amyris elemifera.
 74. — gileadensis.
 75. Daphne mezereum.
ORDER 3. TRIGYNIA.
 With three pistils (fig. 5. b.)
 76. Polygonum bistorta.

CLASS IX.—ENNEANDRIA.
 FIG. 12.—Flowers having nine stamens (fig. 12.)
ORDER 1. MONOGYNIA.
 With one pistil (fig. 4. b.)
 77. Laurus cassia.
 78. — cinnamomum.
 79. — camphora.
 80. — nobilis.
 81. — sassafras.
ORDER 3. TRIGYNIA.
 With three pistils (fig. 5. b.)
 82. Rheum palmatum.
 83. — undulatum.

CLASS X.—DECANDRIA.
 FIG. 13.—Flowers having ten stamens (fig. 13.)
ORDER 1. MONOGYNIA.
 With one pistil (fig. 4. b.)
 84. Arbutus uva ursi.
 85. Boswellia serrata.
 86. Cassia fistula.
 87. — senna.
 88. Copifera officinalis.
 89. Guaiacum officinale.
 90. Hæmatoxylon campechianum.
 91. Myroxylon peruiferum.
 92. Pyrola umbellata.
 93. Quassia excelsa.
 94. — simaruba.
 95. Rhododendron chrysanthum.
 96. Ruta graveolens.
 97. Styraz benzoin.
 98. — officinale.
ORDER 5. PENTAGYNIA.
 With five pistils (fig. 8. b.)
 99. Oxalis acetosella.

CLASS XI.—DODECANDRIA.
 FIG. 14.—Flowers having from twelve to nineteen stamens (fig. 14. a.)
ORDER 1. MONOGYNIA.
 With one pistil (fig. 4. b.)
 100. Asarum europæum.
 101. Canella alba.
 102. Lythrum salicaria.
ORDER 3. TRIGYNIA.
 With three pistils (fig. 5. b.)
 103. Euphorbia officinarum.

CLASS XII.—ICOSANDRIA.
 FIG. 15.—Flowers having twenty or more stamens, which are inserted either upon the calyx or corolla (fig. 15.)
ORDER 1. MONOGYNIA.
 With one pistil (fig. 4. b.)
 104. Amygdalus communis.
 105. Eugenia caryophyllata.
 106. Myrtus pimenta.
 107. Prunus domestica.
 108. — lauro-cerasus.
 109. Punica granatum.
ORDER 5. PENTAGYNIA.
 With five pistils (fig. 8. b.)
 110. Pyrus cydonia.
ORDER 8. POLYGYNIA.
 With many pistils (fig. 14. b.)
 111. Geum urbanum.
 112. Rosa canina.
 113. — centifolia.
 114. — gallica.
 115. Tormentilla erecta.

CLASS XIII.—POLYANDRIA.
 FIG. 16.—Flowers having many stamens, all of which are inserted upon the Receptacle (fig. 16.)
 N.B. The Receptacle is where all the different parts of the flower unite.
ORDER 1. MONOGYNIA.
 With one pistil (fig. 4. b.)
 116. Dryobalanops camphora.
 117. Papaver somniferum.
 118. — rhoeas.
ORDER 3. TRIGYNIA.
 With three pistils (fig. 5. b.)
 119. Aconitum napellus.
 120. Delphinium staphisagria.
ORDER 6. POLYGYNIA.
 With many pistils (fig. 14. b.)
 121. Helleborus fetidus.
 122. — niger.

CLASS XIV.—DIDYNAMIA.
 FIG. 17.—Flower with four stamens, two of which are longest (fig. 17.)
ORDER 1. GYMNOSPERMIA.
 FIG. 18.—Having naked seeds, generally four in number, situated at the bottom of the calyx (fig. 18.)
 124. Lavandula spicata.
 125. Hyssopus officinalis.
 126. Marrubium vulgare.
 127. Melissa officinalis.
 128. Mentha piperita.
 129. — pulegium.
 130. — sativa.
 131. Origanum majorana.
 132. — vulgare.
ORDER 2. ANGIOSPERMIA.
 FIG. 19.—Having the seeds enclosed in a seed vessel (fig. 19.)
 133. Digitalis purpurea.
 134. Scrophularia nodosa.

CLASS XV.—TETRADYNAMIA.
 FIG. 20.—Flowers with six stamens, four of which are longest (fig. 20.)
ORDER 4. HEXANDRIA.
 Having six stamens (fig. 9.)
 167. Aristolochia serpentaria.

CLASS XVI.—MONADELPHIA.
 FIG. 23.—Flowers with the stamens united into one bundle by their filaments (fig. 23.)
ORDER 1. TRIANDRIA.
 Having three stamens (fig. 6. a.)
 139. Tamarindus indica.
ORDER 6. POLYANDRIA.
 Having many stamens (fig. 16.)
 140. Althæa officinalis.
 141. Malva sylvestris.

CLASS XVII.—DIADELPHIA.
 FIG. 24.—Flowers with their stamens united into two bundles (fig. 24.)
ORDER 3. OCTANDRIA.
 Having eight stamens (fig. 11.)
 142. Polygala senega.
ORDER 4. DECANDRIA.
 Having ten stamens (fig. 13.)
 143. Astragalus verus.
 144. Dolichos puriens.
 145. Glycyrrhiza glabra.
 146. Geoffroya inermis.
 147. Pterocarpus erinacea.
 148. — santalinus.
 149. Spartium scoparium.

CLASS XVIII.—POLYADELPHIA.
 FIG. 25.—Flowers with their stamens united into three or more bundles (fig. 25.)
ORDER 3. ICOSANDRIA.
 Having twenty or more stamens attached to the calyx or corolla (fig. 15.)
 150. Citrus aurantium.
 151. — medica.
 152. Melaleuca cajuputi.

ORDER 1. SILIQUOSA.
 FIG. 21.—The seed vessel being a short round pod (fig. 21.)
 135. Cochliaria armoracea.

ORDER 2. SILIGUOSA.
 FIG. 22.—The seed vessel being a long tapering pod (fig. 22.)
 136. Cardamine pratensis.
 137. Sinapis alba.
 138. — nigra.

CLASS XVII.—DIADELPHIA.
 FIG. 24.—Flowers with their stamens united into two bundles (fig. 24.)
ORDER 3. OCTANDRIA.
 Having eight stamens (fig. 11.)
 142. Polygala senega.
ORDER 4. DECANDRIA.
 Having ten stamens (fig. 13.)
 143. Astragalus verus.
 144. Dolichos puriens.
 145. Glycyrrhiza glabra.
 146. Geoffroya inermis.
 147. Pterocarpus erinacea.
 148. — santalinus.
 149. Spartium scoparium.

CLASS XIX.—SYNGENESIA.
 FIG. 26.—Compound flowers having their anthers united into a tube (fig. 26.)
ORDER 1. POLYGAMIA ÆQUALIS.
 Each floret bearing both stamens and pistils (fig. 26.)
 153. Aretium lappa.
 154. Lactuca sativa.
 155. — virosa.
 156. Leontodon taraxacum.
ORDER 2. POLYGAMIA SUPERFLUA.
 FIG. 27.—The florets in the centre of the flower bearing stamens and pistils, while those round the circumference bear pistils only (fig. 27.)
 158. Anthemis nobilis.
 159. — pyrethrum.
 160. Arnica montana.
 161. Artemisia absinthium.
 162. — chinensis.
 163. — santonica.
 164. Inula helenium.
 165. Tussilago farfara.
 166. Tanacetum vulgare.

CLASS XX.—GYNANDRIA.
 FIG. 28.—Flowers with their stamens united with the pistil (fig. 28.)
ORDER 4. HEXANDRIA.
 Having six stamens (fig. 9.)
 167. Aristolochia serpentaria.

CLASS XXI.—MONŒCIA.
 FIG. 29.—Having the stamens in one flower, and the pistils in another, but both on the same plant (fig. 29.)
ORDER 4. TETRANDRIA.
 With four stamens (fig. 7.)
 168. Morus nigra.
ORDER 7. POLYANDRIA.
 With many stamens (fig. 16.)
 169. Arum maculatum.
 170. Quercus infectoria.
 171. — pedunculata.

ORDER 8. MONADELPHIA.
 With the stamens united into one bundle (fig. 23.)
 172. Croton cascariilla.
 173. — tigeum.
 174. Cucumis colocythis.
 175. Momordica elaterium.
 176. Pinus abies.
 177. — balsamea.
 178. — larix.
 179. — sylvestris.
 180. Ricinus communis.

CLASS XXII.—DIECICIA.
 FIG. 30.—Having the stamens in one flower, and the pistils in another, but each on separate plants (fig. 30.)
ORDER 2. DIANDRIA.
 With two stamens (fig. 5.)
 181. Salix caprea.
ORDER 5. PENTANDRIA.
 With five stamens (fig. 8.)
 182. Humulus lupulus.
 183. Pistacia lentiscus.
 184. — terebinthus.
ORDER 6. HEXANDRIA.
 With six stamens (fig. 9.)
 185. Smilax sarsaparilla.

ORDER 10. DODECANDRIA.
 With from twelve to nineteen stamens (fig. 14.)
 186. Cocculus palmatus.
ORDER 13. MONADELPHIA.
 With the stamens united into one bundle (fig. 23.)
 187. Juniperus communis.
 188. — sabina.
 189. Myristica moschata.

CLASS XXIII.—POLYGAMIA.
 FIG. 31.—Having three kinds of flowers, some with stamens only, others with pistils, and a third with both, which may either be all situated on the same plant, or scattered on different ones (fig. 31.)
ORDER 1. MONŒCIA.
 With male and female flowers on the same plant (fig. 29.)
 190. Acacia catechu.
 191. — vera.
 192. Stalagmites cambogioides.
 193. Veratrum album.

ORDER 2. DIECICIA.
 With male and female flowers on different plants (fig. 30.)
 194. Ficus carica.
 195. Fraxinus ornus.

CLASS XXIV.—CRYPTOGAMIA.
 FIG. 32.—Plants having their parts of fructification distinct (fig. 32.)
ORDER 1. FILICES.
 Ferns (fig. 32.)
 196. Aspidium filix mas.
ORDER 3. A.G.E.
 FIG. 33.—Flags (fig. 33.)
 197. Fucus vesiculosus.
 198. Lichen islandicus.

MEDICAL PLANTS.

PLANTS are naturally divided, according to their structure, into two grand divisions, namely, CELLULAR and VASCULAR, or ACOTYLEDONOUS and COTYLEDONOUS plants. Acotyledonous, or cellular plants, are the same as the Linnæan Cryptogamous; while Cotyledonous, or vascular, represent Phanerogamous plants.

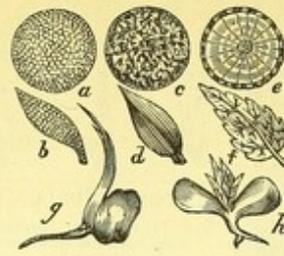
Cellular plants are so named from their structure being entirely cellular, and devoid both of woody fibre and spiral vessels. If a transverse section (a) be made of a cellular plant, no regular succession of bark, woody fibre, and pith, is observed, as in Dicotyledones (c), but the whole structure seems analogous to the pith or central medulla of those plants; consequently their leaves, when present, are untraversed by nerves, being destitute of spiral vessels (b).

Vascular plants, on the contrary, are composed of cellular tissue, spiral vessels, and woody fibre; consequently their leaves are traversed by nerves: and another distinguishing feature is, that they all bear perfect flowers, that is, flowers furnished either with stamens or pistils, or both.

Vascular plants are divided into MONOCOTYLEDONES and DICOTYLEDONES.

The Cotyledons (g, h) are the seed leaves of the embryo, which involve, and for some time assist, in the nutrition of the young plant.

Monocotyledonous plants (g) are those which have but one of these seed leaves, or cotyledones.



a. A transverse section of the stem of an Acotyledonous plant.
b. A leaf of an Acotyledonous plant.
c. A transverse section of the stem of a Monocotyledonous plant.
d. A leaf of a Monocotyledonous plant.
e. A transverse section of the stem of a Dicotyledonous plant.
f. A leaf of a Dicotyledonous plant.
g. A Monocotyledonous seed beginning to sprout.
h. A Dicotyledonous seed beginning to sprout.

Dicotyledonous (h), those which have two or more: it is quite unnecessary, however, to dissect the seed of a plant to ascertain whether it is Mono- or Di-cotyledonous, for both may be easily and accurately distinguished by their anatomical structure.

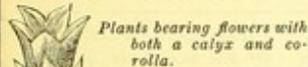
In Monocotyledones there is no distinction between wood and bark, the cellular tissue and woody fibre being mingled together without any distinct circular layers (c). Again, there are no radiations to be seen in a transverse section of a monocotyledonous stem, as in a dicotyledonous (c, e); and moreover, in the former, the veins or nerves of the leaves are unbranched (d), and pass in parallel directions from the base to the apex; while, in the latter, they are branched (f), and form various angles, with the midrib or central prolongation of the petiole, or leaf stalk.

Thus then are distinguishable three grand classes in the natural arrangement of plants; viz. DICOTYLEDONES, MONOCOTYLEDONES, and ACOTYLEDONES.

Dicotyledonous plants, being by far the most numerous, are subdivided into 1st, those bearing flowers with both a calyx and corolla, (DICHLAMYDEÆ); 2nd, those in which the calyx and corolla are not distinct, (MONOCHLAMYDEÆ); and, 3rd, those in which the flowers are destitute of both calyx and corolla, (ACHLAMYDEÆ). The former sub-division is again still further divided according to the relative situation of the stamens; so also are Monocotyledonous plants; as may be seen in the following Table.

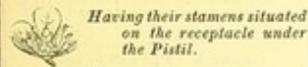
VASCULARES.

I.—DICOTYLEDONES.
DIV. I. DICHLAMYDEÆ.



Plants bearing flowers with both a calyx and corolla.

SUB-DIV. I. THALAMIFLORE.



Having their stamens situated on the receptacle under the Pistil.

RANUNCULACEÆ.

1. Aconitum napellus.
2. Delphinium staphisagria.
3. Helleborus foetidus.
4. ——— niger.
5. Ranunculus acris.
6. ——— flammula.

MENISPERMEÆ.

7. Cocculus palmatus.

PAPAVERACEÆ.

8. Papaver rhoeas.
9. ——— somniferum.

CRUCIFERÆ.

10. Cardamine pratensis.
11. Cochlearia armoracia.
12. Sinapis alba.
13. ——— nigra.

VIOLARIÆ.

14. Viola odorata.

POLYGALÆ.

15. Krameria triandra.
16. Polygala senega.

CARYOPHYLLÆ.

17. Dianthus caryophyllus.

LINÆÆ.

18. Linum catharticum.
19. ——— usitatissimum.

MALVACEÆ.

20. Althœa officinalis.
21. Malva sylvestris.

HIPPOCASTANÆÆ.

22. Esculus hippocastanum.

GUTIFERÆ.

23. Dryobalanops camphora.
24. Stalagmites cambogioides.

VINIFERÆ.

25. Vitis vinifera.

OXALIDÆÆ.

26. Oxalis acetosella.

ZYGOPHYLLÆÆ.

27. Guaiacum officinale.

MELIACEÆ.

28. Canelle alba.

AURANTIACEÆ.

29. Citrus aurantium.
30. ——— medica.

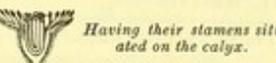
RUTACEÆ.

31. Diosma crenata.
32. Ruta graveolens.

SIMARUBÆÆ.

33. Bomplandia trifoliata.
34. Quassia excelsa.
35. ——— simaruba.

SUB-DIV. 2. CALYCIFLORE.



Having their stamens situated on the calyx.

RHAMNÆÆ.

36. Rhamnus catharticus.

TEREBINTHACEÆ.

37. Amyris elemifera.
38. ——— gileadensis.
39. Boswellia serrata.
40. Pistacia lentiscus.
41. ——— terebinthus.
42. Rhus toxicodendron.

LEGUMINOSÆ.

43. Acacia vera.
44. ——— catechu.
45. Astragalus verus.
46. Cassia fistula.
47. ——— senna.
48. Copaifera officinalis.
49. Dolichos pruriens.
50. Geoffroya inermis.
51. Glycyrrhiza glabra.
52. Hæmatoxylin campechianum.
53. Myroxylon peruiferum.
54. Pterocarpus santalinus.
55. ——— erinacea.
56. Spartium scoparium.
57. Tamarindus indica.

ROSACEÆ.

58. Agrimonia eupatoria.
59. Amygdalus communis.
60. Geum urbanum.
61. Prunus domestica.
62. ——— lauro-cerasus.
63. Pyrus cydonia.
64. Rosa canina.
65. ——— centifolia.
66. ——— gallica.
67. Tormentilla erecta.

SALICARIÆÆ.

68. Lythrum salicaria.

MYRTACEÆ.

69. Eugenia caryophyllata.
70. Melaleuca cajaputi.
71. Myrtus pimenta.
72. Punica granatum.

CUCURBITACEÆ.

73. Cucumis colocynthis.
74. Momordica elaterium.

UMBELLIFERÆ.

75. Angelica archangelica.
76. Anethum graveolens.
77. ——— feniculum.
78. Bubon galbanum.
79. Carum carol.
80. Cicuta virosa.
81. Coriandrum sativum.
82. Conium maculatum.
83. Cuminum cyminum.
84. Daucus carota.
85. Ferula assafoetida.
86. Heracleum gummiferum.
87. Pastinaca opoponax.
88. Pimpinella anisum.

CAPRIFOLIACEÆ.

89. Sambucus nigra.

RUBIACEÆ.

90. Rubia tinctorum.

CINCHONACEÆ.

91. Cinchona lancifolia.
92. ——— cordifolia.
93. ——— oblongifolia.
94. Coffea arabica.
95. Cephaelis ipecacuanha.

VALERIANÆÆ.

96. Valeriana officinalis.

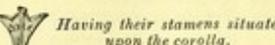
COMPOSITEÆ.

97. Anthemis nobilis.
98. ——— pyrethrum.
99. Arnica montana.
100. Arctium lappa.
101. Artemisia absinthium.
102. ——— chinensis.
103. ——— santonica.
104. Centaurea benedicta.
105. Inula helenium.
106. Lactuca sativa.
107. ——— virosa.
108. Leontodon taraxacum.
109. Tussilago farfara.
110. Tansetum vulgare.

ERICÆÆ.

111. Arbutus uva-ursi.
112. Pyrola umbellata.
113. Rhododendron chrysanthum.

SUB-DIV. 3. COROLLIFLORE.



Having their stamens situated upon the corolla.

EBENACEÆ.

114. Stytax benzoin.
115. ——— officinale.

OLEACEÆ.

116. Fraxinus orbis.
117. Olea europæa.

APOCYNÆÆ.

118. Strychnos nux vomica.

GENTIANÆÆ.

119. Chironia centaurium.
120. Gentian lutea.
121. Menyanthes trifoliata.
122. Spigelia marilandica.

CONVOLVULACEÆ.

123. Convolvulus scammonia.
124. ——— jalapa.

BORAGINÆÆ.

125. Anchusa tinctoria.

SOLANÆÆ.

126. Atropa belladonna.
127. Capsicum annuum.
128. Datura stramonium.
129. Hyoscyamus niger.
130. Nicotiana tabacum.
131. Solanum dulcamara.

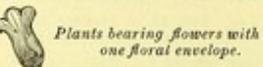
SCROPHULARINÆÆ.

132. Digitalis purpurea.
133. Gratiola officinalis.
134. Scrophularia nodosa.

LABIATÆ.

135. Hyssopus officinalis.
136. Lavandula spicata.
137. Marrubium vulgare.
138. Melissa officinalis.
139. Mentha piperita.
140. ——— pulegium.
141. ——— sativa.
142. Origanum vulgare.
143. ——— majorana.
144. Rosmarinus officinalis.
145. Salvia officinalis.

DIV. II. MONOCHLAMYDEÆ.



Plants bearing flowers with but one floral envelope.

POLYGONEÆ.

146. Rumex acetosa.
147. Rheim palmatum.
148. ——— undulatum.
149. Polygonum bistorta.

LAURINÆÆ.

150. Laurus cassia.
151. ——— camphora.
152. ——— cinnamomum.
153. ——— nobilis.
154. ——— sassafras.

MYRISTICÆÆ.

155. Myristica moschata.

THYMELEÆ.

156. Daphne mezereum.

ARISTOLOCHIÆÆ.

157. Aristolochia serpentaria.
158. Asarum europæum.

EUPHORBIAÆÆ.

159. Croton cascariilla.
160. ——— tiglium.
161. Euphorbia officinarum.
162. Ricinus communis.

URTICÆÆ.

163. Dorstenia contrajerva.
164. Ficus carica.
165. Humulus lupulus.
166. Morus nigra.

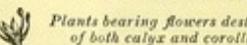
ULMACEÆ.

167. Ulmus campestris.

PIPERACEÆ.

168. Piper cubeba.
169. ——— longum.
170. ——— nigrum.

DIV. III. ACHLAMYDEÆ.



Plants bearing flowers destitute of both calyx and corolla.

AMENTACEÆ.

171. Salix caprea.

CUPULIFERÆÆ.

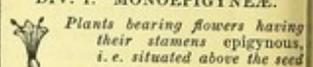
172. Quercus infectoria.
173. ——— pedunculata.

CONIFERÆÆ.

174. Pinus abies.
175. ——— balsamea.
176. ——— larix.

177. Pinus sylvestris.
178. Juniperus communis.
179. ——— sabina.

II.—MONOCOTYLEDONES.
DIV. I. MONOEPIGYNÆÆ.



Plants bearing flowers having their stamens epigynous, i. e. situated above the seed organ.

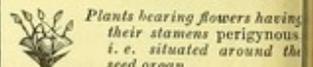
SCITAMINÆÆ.

180. Elettaria cardamomum.
181. Curcuma longa.
182. Zingiber officinale.

IRIDÆÆ.

183. Crocus sativus.
184. Iris florentina.

DIV. II. MONOPERIGYNÆÆ.



Plants bearing flowers having their stamens perigynous, i. e. situated around the seed organ.

ASPHODELEÆÆ.

185. Allium sativum.
186. ——— porrum.
187. ——— cepa.
188. Aloe spicata.
189. ——— vulgaris.
190. Scilla maritima.

SMILACEÆÆ.

191. Smilax sarsaparilla.

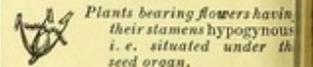
MELANTHACEÆÆ.

192. Colchicum autumnale.
193. Veratrum album.

PALMEÆÆ.

194. Cocos butyracea.

DIV. III. MONOHYPOGYNÆÆ.



Plants bearing flowers having their stamens hypogynous, i. e. situated under the seed organ.

GRAMINÆÆ.

195. Avena sativa.
196. Hordeum distichon.
197. Secale cornutum.
198. Saccharum officinarum.
199. Triticum hybernium.

AROIDEÆÆ.

200. Acorus calamus.
201. Arum maculatum.

CELLULARES.

III.—ACOTYLEDONES.
FILICESÆÆ.

202. Aspidium filix-mas.

ALGÆÆÆ.

203. Fucus vesiculosus.

LICHENESÆÆ.

204. Lichen islandicus.

FUNGIÆÆ.

205. Boletus ignarius.

MEDICO-BOTANICAL CHART OF EUROPE.



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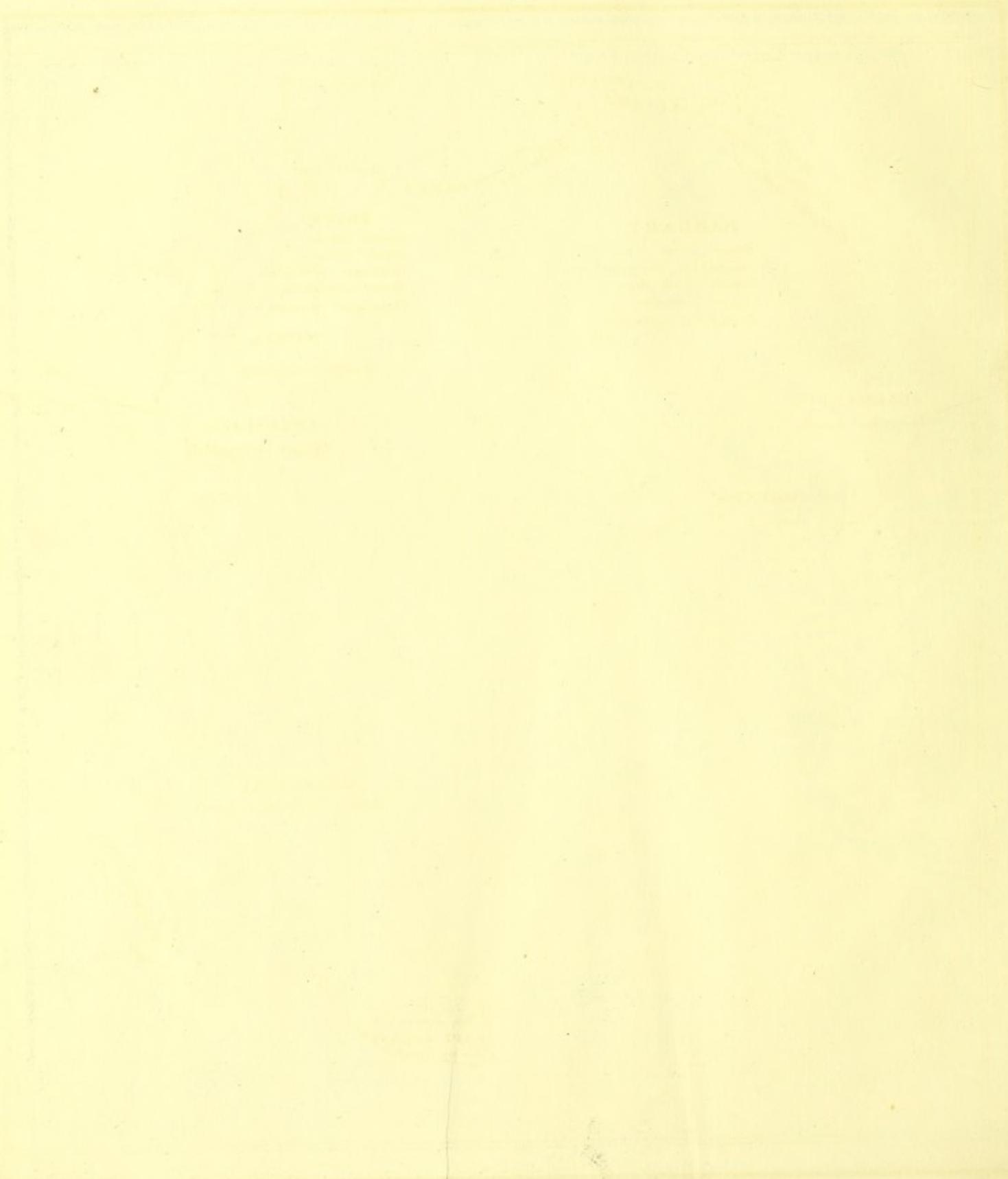
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MEDICO-BOTANICAL CHART OF ASIA.

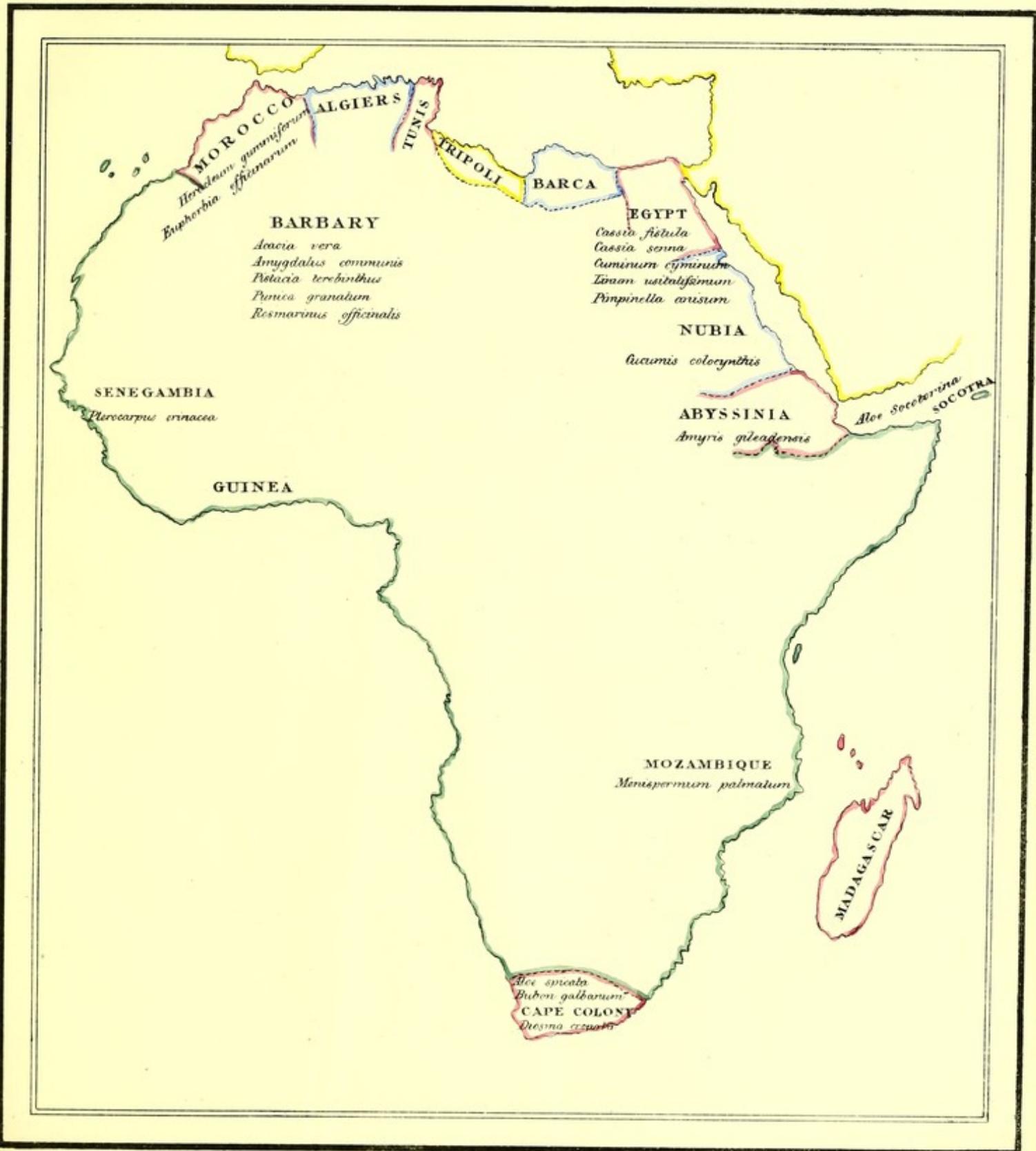


MEDICO-BOTANICAL CHART OF

AFRICA



MEDICO-BOTANICAL CHART OF AFRICA.



MUSEO BOTANICO DE LA UNIVERSIDAD DE MADRID



MEDICO-BOTANICAL CHART OF AMERICA.



FORMS OF EXHIBITION OF MEDICAL PLANTS, WITH A REFERENCE TO THEIR LINNEAN AND JUSSIEUAN CLASSIFICATION.

Name of Plant.	Lin.	Jus.	Part used.	Properties.	Dose.	Active principle.	Pharmaceutical Preparations, and Forms of Exhibition.
cia catechu	190	44	Extract	Astringent	gr. x.—ʒij.	Tannin	Inf. catechu. Tinct. catechu.
— vera	191	43	Gum	Demulcent	Ad libitum	Mucilage	{ Muc. acaciae. Mist. cretae, cornu. usti, guaiaci, et moschi. { Pulv. cretae co., et trag. co. Conf. amygdalarum.
nitum napellus	119	1	Leaves	Narcotic	gr. j.—iv.	Aconita	Extractum aconiti.
ulus calamus	63	200	Rhizoma	Aromatic and tonic.	ʒj.—ʒj.	Volatile oil and bitter matter.	Given in the form of powder or infusion.
culus hippocastanum	72	22	Bark	Tonic	ʒj.—ʒj.	Not known	Given in powder.
um cepa	64	187	Bulb	Stimulant and diuretic	ʒss.—ʒij.	Volatile oil	Given in substance.
— porrum	65	186	Bulb	Stimulant and diuretic	ʒss.—ʒij.	Volatile oil	Given in the form of expressed juice.
— sativum	66	185	Bulb	Stimulant and diuretic	ʒss.—ʒij.	Volatile oil	Given in substance, or in the form of expressed juice.
le spicata	67	188	Extract	} Stimulating purgative	gr. v.—gr. xv.	Resin	{ Decoct. aloes co. Tinct. aloes, aloes co., et benzoini co. Vin. { aloes. Pil. aloes c. myrrha, et cambogiae co. Pulv. aloes co. { Ex. aloes pur., et colocynthidis co.
— vulgaris	68	189	Extract				
anea officinalis	140	70	Leaves and root	Demulcent	Ad libitum	Mucilage	Syrupus althaeae.
sydalis communis	104	39	Kernel	Demulcent	Ad libitum	Fixed oil	Ol. amygdalae. Mist. amygdalae. Conf. amygdalae.
ryris elemifera	73	37	Resin	Stimulant	Used externally.	Resin and volatile oil	Unguentum elemi comp.
— gileadensis	74	38	Liquid resin	Stimulant	Not used	Volatile oil	Not used.
sthus tinctoria	22	125	Root	Colouring	ʒj.—ʒj.	Colouring matter	Used for colouring oils and ointments.
sthum feniculum	45	77	Seeds	Carminative	ʒj.—ʒj.	Volatile oil	Aqua feniculi. Spiritus juniperi comp.
— graveolens	44	76	Seeds	Carminative	ʒj.—ʒj.	Volatile oil	Aqua anethi.
selica archangelica	46	75	Seeds and root	Carminative	ʒj.—ʒj.	Volatile oil	Given in substance.
themis nobilis	158	97	Flowers	Tonic and carminative	ʒj.—ʒj.	Piperina and volatile oil	Inf. anthemidis. Extr. anthemidis. Ol. anthemidis.
— pyrethrum	159	98	Root	Stalagmose	gr. v.—x.	Fixed oil	Chewed, to excite the flow of saliva.
etus uva-ursi	84	111	Leaves	Astringent	ʒj.—ʒj.	Tannin and Gallic acid	Given in powder.
tium lappa	153	100	Seeds and root	Diuretic	ʒj.—ʒj.	Inuline	Given in powder.
tylochia serpentaria	167	157	Root	Stimulating tonic	gr. x.—ʒss.	Volatile oil and resin	Tinct. serpentariae, et cinchonae comp.
lica montana	160	99	Flowers and root	Narcotic and stimulant	gr. v.—x.	Cytisina and resin	Given in powder or infusion.
emisia absinthium	161	101	Leaves and tops	Tonic and anthelmintic	ʒj.—ʒij.	Volatile oil and resin	Given in powder or infusion.
— chinensis	162	102	Leaves	Counter irritant	ʒj.—ʒij.	Moxa	Used for preparing Moxa.
— santonica	163	103	Seeds and tops	Anthelmintic	ʒj.—ʒij.	Volatile oil and resin	Given in powder or infusion.
rum europaeum	100	158	Leaves	Errhine	gr. ij.—v.	Cytisina and volatile oil	Snuffed up the nose.
idium filix-mas.	196	202	Root	Astringent and anthelmintic	ʒj.—ʒij.	Volatile oil and tannin	Given in powder.
ragalus verus	143	45	Gum	Demulcent	gr. x.—ʒj.	Cerasin	Pulv. tragacanthae comp.
opa belladonna	23	126	Leaves	Narcotic	gr. j.—x.	Atropia	Extractum belladonnae.
ena sativa	14	195	Seeds	Demulcent	Ad libitum	Fecula	Used for preparing grits.
mplandia trifoliata	24	33	Bark	Stimulant and tonic	gr. x.—ʒss.	Volatile oil and resin	Infusum cuspariae.
rella serrata	85	39	Gum resin	Stimulant and diaphoretic	gr. v.—ʒj.	Volatile oil and resin	Used to perfume sick rooms.
bon galbanum	47	78	Gum resin	Stimulant and anti-spasm	gr. x.—ʒss.	Gum-resin	Pilulae galbani comp. Emplastrum galbani comp.
ella alba	101	28	Bark	Stimulant and tonic	gr. x.—ʒss.	Volatile oil and resin	Vinum aloes.
isicum annuum	29	127	Fruit	Stimulant	gr. v.—x.	Fixed oil	Tinctura capsici.
damine pratensis	136	10	Flowers	Diuretic and anti-spasm	ʒss.—ʒij.	Acrid oil	Given in powder.
um carui	48	79	Seeds	Carminative	gr. x.—ʒj.	Volatile oil	{ Tinct. sennae, et cardamomi co. Ol. carui. Aqua carui. Sp. { carui, et juniperi co. Conf. opii, et rutae. Emp. cumini.
ia fistula	86	46	Pulp of the pods	Laxative	ʒij.—ʒj.	Sugar and mucus	Confectio cassiae, et sennae.
— senna	87	47	Leaves	Purgative	ʒj.—ʒj.	Cathartine	{ Tinc. sennae, Inf. sennae, Conf. sennae, Syr. sennae, Pulv. { sennae co.
haelis ipecacuanha	25	95	Root	Expectorant and emetic	gr. ss.—ʒss.	Emetina	Vin. ipec., Pulv. ipec. co.
ronia centaureium	30	119	Flowering tops	Tonic	ʒj.—ʒj.	Bitter resin	Given in powder.
chona cordifolia	26	92	Bark	Tonic	ʒss.—ʒij.	Quinia	{ All the pharmaceutical preparations are made with the Cin- { chona lancifolia, Inf. cinchonae, Decoc. cinchonae, Ex. cin- { chonae, et cinchonae resinorum. Tinct. cinchonae, et cin- { chonae co.
— lancifolia	27	91	Bark	Tonic	ʒss.—ʒij.	Cinchonia	
— oblongifolia	28	93	Bark	Tonic	ʒss.—ʒij.	Quinia and cinchonia	
ras aurantium	150	29	Rind of the fruit	Tonic and stomachic	ʒj.—ʒj.	Bitter principle & volatile oil	{ Inf. aurantii co., et gent. co. Tinct. aurantii, cinchonae co., et { gent. co., Conf. aurantii, Sp. armoraciae co. Syr. aurantii.
— medica	151	30	{ Juice of the fruit { Rind of the fruit	Refrigerant Tonic and stomachic	Ad libitum ʒj.—ʒj.	Citric acid Bitter principle & volatile oil	Acidum citricum. Syr. limonum.
culus palmatus	186	7	Root	Tonic	gr. x.—ʒj.	Colombina	Inf. aurantii co., et gentianae co.
chlearia armoracia	135	11	Root	Stimulant and diuretic	ʒj.—ʒj.	Volatile oil	Inf. calumbae. Tinct. calumbae.
chicum autumnale	71	192	{ Bulb { Seeds	} Narcotic and purgative	gr. ij.—gr. viij.	Veratria	{ Acet. colchici. Vin. colchici. { Sp. colchici ammoniaci.
inum maculatum	49	82	Leaves				
volvulus jalapa	31	124	Root	Cathartic	gr. x.—ʒss.	Conein	Extractum conii.
— sammonia	32	123	Gum resin	Cathartic	gr. v.—ʒj.	Resin	Tinctura jalapae. Ex. jalapae.
paifera officinalis	88	48	Liquid resin	Diuretic and stimulant	M. x.—ʒss.	Volatile oil	Pulv. scammi co., et sennae co., Conf. scammi. Ex. colocynth. co.
randrum sativum	50	81	Seeds	Carminative	ʒj.—ʒj.	Volatile oil	Given in substance.
ocus sativus	11	183	Stigmas	Stimulant	gr. x.—ʒss.	Volatile oil and polychroite	Confectio sennae.
ston cascarilla	172	159	Bark	Tonic	ʒj.—ʒj.	Volatile oil	{ Tinct. aloes co., cinchonae co., rhei, et rhei co. Pil. aloes c. { myrrha, Syr. croci. Conf. aromatica. Decoc. aloes co.
— tiglium	173	160	Oil of the seeds	Drastic cathartic	M. j.—M. ij.	Fixed oil	Inf. cascarilla. Tinct. cascarilla.
cumis colocynthis	174	73	Pulp of the fruit	Drastic cathartic	gr. ij.—gr. vj.	Colocynthine	Given in substance.
minum cymimum	51	83	Seeds	Carminative and stimulant	ʒj.—ʒj.	Volatile oil	Ex. colocynthidis, et colocynthidis comp.
reuma longa	1	181	Root	Carminative and tonic	gr. x.—ʒss.	Volatile oil	Emplastrum cumini.
rhne mezereum	75	156	Bark of the root	Stimulating diaphoretic	gr. j.—gr. x.	Daphnin	Given in powder.
tura stramonium	33	128	Leaves and seeds	Narcotic	gr. ss.—gr. x.	Daturia	Decoetum sarsaparillae co.
urus carota	52	84	Seeds	Carminative	ʒj.—ʒj.	Volatile oil	Extractum stramonii.
ipinium staphisagria	120	2	Seeds	Cathartic	gr. ij.—gr. x.	Delphinia	The root is used in the form of poultice.
italis purpurea	133	132	Leaves	Diuretic and sedative	gr. j.—gr. ij.	Digitaria	Rarely used, excepting to destroy Pediculi.
soma crenata	34	31	Leaves	Tonic and diuretic	ʒj.—ʒj.	Volatile oil and extractive	Tinct. digitalis. Inf. digitalis.
richos pruriens	144	49	Hairs of the pods	Anthelmintic	gr. v.—gr. x.	Mechanical	Given in the form of infusion.
stenia contrajerva	19	163	Root	Tonic and sudorific	gr. x.—ʒj.	Acrid principle	Given in substance.
tyobalanops camphora	116	23	Camphor	Stimulant and diaphoretic	gr. ij.—gr. x.	Camphor	Pulvis contrajervae comp. { Tinct. camph. co., Mist. camph., Sp. camph., Lin. camphorae, { camphorae co., saponis co., et hydrargyri.
etaria cardamomum	2	180	Seeds	Carminative	gr. v.—ʒj.	Volatile oil	{ Tinct. card., card. co., cinnam. co., gent. co., rhei, et sennae. { Sp. Aethris aromat., Ex. colocynthidis co., Conf. aromatica, { Pulv. cinnam. co.
genia caryophyllata	105	69	Flower buds	Stimulant and aromatic	gr. v.—ʒj.	Volatile oil	{ Inf. caryoph., et aurant. co. Vinum opii. Conf. aromat., et { scammoniae.
phorbia officinarum	103	161	Gum resin	Errhine	gr. j.—gr. ij.	Acrid resin	Snuffed up the nose.
trula assafoetida	53	85	Gum resin	Anti-spasm and expectorant	gr. v.—ʒj.	Gum resin	{ Tinct. assafoetidae. Mist. assafoetidae. Sp. ammon. foetidus, Pil. { galbani co.
rus carica	194	164	Fruit	Demulcent	Ad libitum	Sugar	Decoetum hordei co. Conf. sennae.
axibus ornus	195	116	Manna	Laxative	ʒss.—ʒj.	Sugar	Confectio cassiae.
cus vesiculosus	197	203	Whole plant	Deobstruent	gr. x.—ʒij.	Iodine	The burnt plant given in powder.
astiana lutea	54	120	Root	Tonic	gr. x.—ʒj.	Bitter extractive	Tinct. gentianae co., Inf. gentianae co., Ex. gentianae.
soffroya inermis	146	50	Bark	Anthelmintic	ʒj.—ʒj.	Resin	Given in powder.
um urbanum	111	60	Root	Astringent	ʒss.—ʒj.	Tannin	Given in powder.
pyrrhiza glabra	145	51	Root	Demulcent	ʒj.—ʒj.	Sarcocoll	Decoct. sarsapa. co., Inf. lini, Ex. glycyrrhizae, Conf. sennae.
atiola officinalis	4	133	Herb	Cathartic	gr. x.—ʒss.	Bitter principle	Given in powder.
alsicum officinale	89	27	Resin	Diaphoretic	gr. x.—ʒss.	Guaiac	{ Tinct. guaiaci, et guaiaci ammon., Decoct. sarsapa. co., Mist. { guaiaci, Pil. hyd. submur. co., Pulv. aloes co.
ematoxylon campechia	90	52	Wood	Astringent	ʒj.—ʒj.	Tannin	Extractum hematoxylis.
offeborus foetidus	121	3	Leaves	Anthelmintic	gr. v.—gr. xv.	Acrid principle	Given in powder.
— niger	122	4	Root	Cathartic	gr. v.—ʒj.	Acrid principle	Tinctura hellebori nigri.
tracteum gummiferum	55	86	Gum resin	Stimulating expectorant	gr. x.—ʒss.	Gum resin	{ Mist. ammoniaci, Pil. scillae co., Emp. ammoniaci, et ammo- { niaci c. hydrargyro.

TABLE, No. 4, (continued.)

Name.	How obtained.	Composition.	Properties.	Dose.	Pharmaceutical Preparations, and Practical Remarks.
Potassæ sulphas	{ Prepared from the residue after the distillation } { of Nitric acid..... }	{ 1 Potassa = 48 } 88..... { 1 Sulphuric acid = 40 }	Cathartic	gr. x.—5j.	Pulvis ipecacuanhæ compositus.
supertartras	Purified Tartar, <i>vide</i> Tartarum	{ 1 Potassa = 48 } 180 { 2 Tartaric acid = 132 }	Purgative	5ij.—5vj.	{ Acidum tartaricum, Ferrum tartarizatum, Potassæ tartras, Sodæ tartarizata, Antimonium tartari- zatum.
Potassa impura	{ By lixiviating the ashes of land plants, and eva- } { porating the solution to dryness..... }	Impure carbonate of potassa	Not used		Potassæ subcarbonas.
Sapo durus	{ By boiling olive oil with Barilla, and a small } { quantity of quicklime..... }	{ Margaric and Oleic acids, with } { soda..... }	Laxative	gr. v.—5ñ.	{ Pil. saponis c. opio, et scillæ co., Emp. saponis, Ceratum saponis, Lin. saponis co., Ex. colocyn- thidis co.
Sapo mollis	By boiling fat or oil with potassa	Margaric & Oleic acids, with potassa	Used externally		Used in frictions to sprains and bruises.
Sevum	The suet obtained from the Ovis aries	Elaine and Stearine	Used externally		Sevum præparatum, Emplastra et Unguenta varia.
Sodæ murias	A natural production	{ 1 Sodium = 24 } 60 { 1 Chlorine = 36 }	{ Tonic { Purgative }	gr. x.—5j. 5ñ.—5j.	{ This salt is strictly a Chloride of sodium.
subboras	{ A natural production, found in Persia and Thi- } { bet; and imported into this country under the } { name of <i>Tincal</i> }	{ 1 Soda = 32 } 80 { 2 Boracic acid = 48 } { The crystals contain 10 prop. of } { water = 90, then 80 + 90 = 170 }	Detergent	gr. x.—5ñ.	{ Mel boracis. This salt is strictly a Bi-borate of } { soda.
Soda impura	{ By burning marine plants, with a sufficient de- } { gree of heat to cause the ashes to enter into } { a state of semifusion..... }	Impure carbonate of soda	Not used		Sodæ subcarbonas.
Spiritus rectificatus	From sugar, by exciting the vinous fermentation	{ 1 Oxygen = 8 } 23..... { 2 Carbon = 12 } { 3 Hydrogen = 3 }	Stimulant	Not used	{ Alcohol, Sp. camph., ammon., ammon. arom., ammon. succin., cinnam., menth. p., menth. v., et lavand., Tinct. aloes, aloes co., assafoetid., benzoini co., castor., ferri. mur., gualaci, myr- rhæ, et zingiberis, Liq. hydrarg. oxymuriatis. { All the Tinctures and Spirits which are not pre- { pared with rectified spirit.
tenuior	{ By mixing 4 parts, by measure, of rectified spi- } { rit, with 3 of water..... }				{ Spongia usta, its properties depending on Iodine
Spongia	Found in the Mediterranean and Red Seas	Principally gelatine and albumen	Deobstruent	5ñ.—5ij.	Spongia usta, its properties depending on Iodine
Siannum	Found native, and mineralized	Atomic weight, 59	Anthelmintic	5j.—5ij.	Sianni limatura.
Succinum	Found on the coast of the Baltic	{ Volatile oil, Succinic acid, Re- } { sin, and Bituminous matter }	Not used		Oleum succini.
Sulphur	Found native, and mineralized	Atomic weight, 16	Laxative	5ñ.—5iij.	{ Sulphur lotum, sublimatum, et præcip., Ol. sul- phur., Potassæ sulphur., Ung. sulphur. et sul- phur. co., Hydrarg. sulphur. nigrum, et rubrum.
Tartarum	Deposited on the sides of wine casks	{ Impure supertartrate of po- } { tassa, <i>vide</i> Potassæ super- } { tartras..... }	Not used		Potassæ supertartras.
Testæ	The shells of the <i>Ostrea edulus</i>	{ Carbonate of lime, and animal } { matter..... }	Antacid	ʒj.—5j.	Testæ præparate.
Zincum	From the native Carbonate, or Sulphuret	Atomic weight, 34	Not used		Zinci sulphas.

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