Notebook 4

Publication/Creation

20 February 1950 - 25 May 1950

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Wellcome Collection 183 Euston Road London NW1 2BE UK T +44 (0)20 7611 8722 E library@wellcomecollection.org https://wellcomecollection.org NUCLEIG ACIDS.



G. R. Wyatt
Vins Research Unix
Wollen Institut, Cambridge.

3eb. 1950.

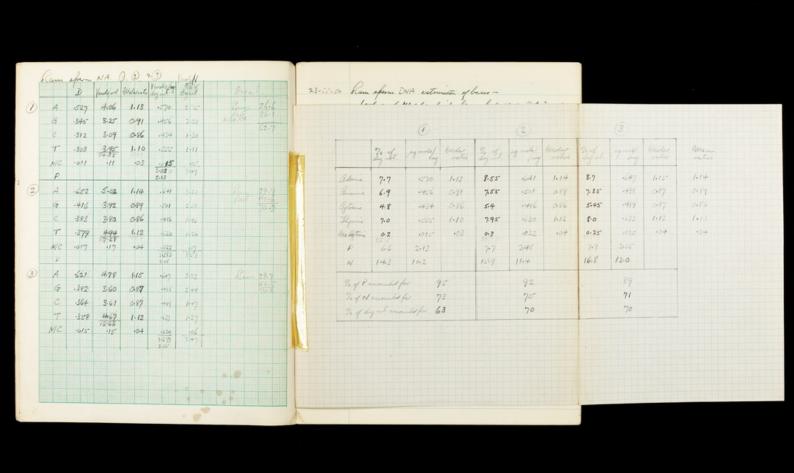


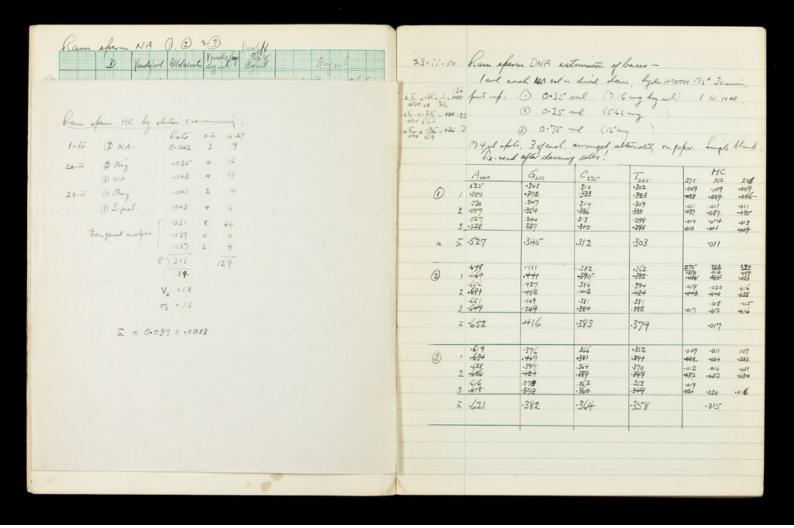
Mannis frefin 1, 2 + 3.

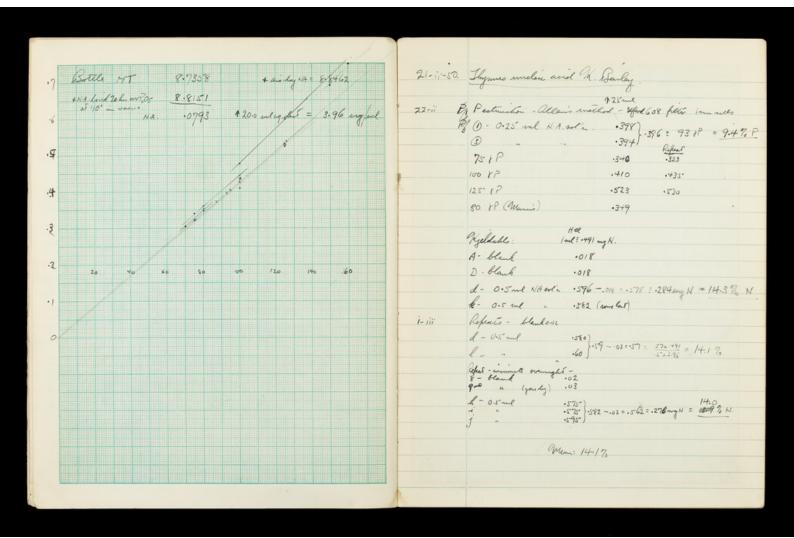
O Afron expected from som flavore, worded, abouted 2 TG, render 7 TG, r

1 20-11-50 Portions weighed out by Mann: 0 95.2 mg 0 (3) @ 101 mg Oried N.A. bottle, 4.4404 46 35.8 2.1259 3.1319 all treated identisity: dividue in 12 and 4/10 No. Oct. 79.8 Desolut in ag dest vol 5:0 6.1 5.0 levag 9 till v. bille mar gel. Itels disolved in STON add 3 drups glar 14 ar que to Mann. -> mg/wl dyw. 5.62 7.16 15.9 Supomet ald out glas 100. + 5 and als ETTT ->
brig strongs fft. Spin down, week - 90% ETTH als ETTH
etter, by overight are Calle week, then 22 hrs our 20. 24-11 Kyeldells: Blank v. TIXA Bailey A - 0.25 ml sol m () @ 110° in low was. .536 .538.018 - .520 8.258 mg 1 = 14.3 % 11 0.25 cut " Dissolve in ag does . Take 1.0 ml aligner for bases i osuladin @ 22-11 1928 .931-011:913 . THE ME 15:9 % N Peetmater: .408° 425 = 100 P . 7.0 Report. 1 - P2 - 0.2 ml B 02 ml rolm (3) F 02 ml - (concloss 1.125 - 018 = 1.107 = .5 Hday 10 = 17.1 70 N Py - 0.2 ml ·370 372 : 87 /2 = 7.7 % 2. @ P. . 0.2 ml & Blank ·537].537 = 126 xP = 7.9% P 3) b - 0-1 ml Refer 0 P. L 0.15 and solve 0 0.52 = 10 x . 491, 000 x 1 = 16.4 % 16.8 % 16.8 % .406].404 = 95 pp = 6.6% .402 0.0

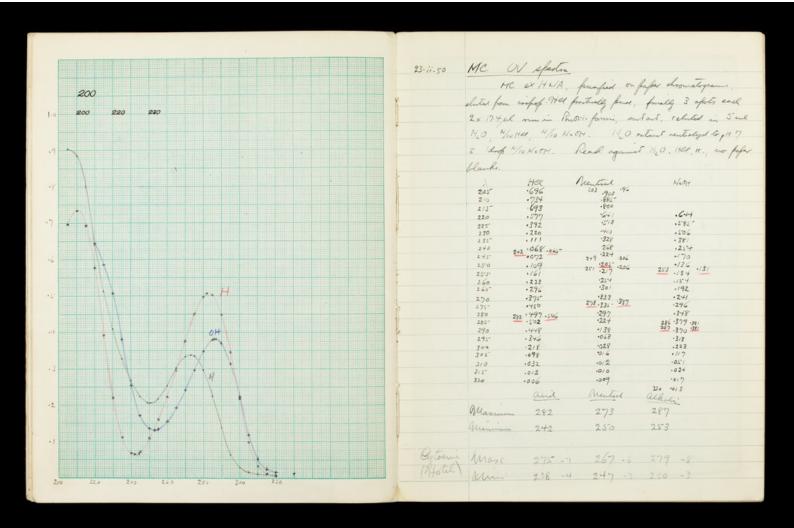
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	A	57		4.06	1.13	.570	2/75-	Banks. Kens	26.6	la constitution of
	G	-34	701	3.25	0.91	.456	2-28	 spares.	62.7	
	c	.3)	12	3.09	0.86	.434	1-30		90.1	
	T	-30		3.95	J. 16	.333	1+11			
	MIC	.0	"	-//	-03	-0 15 2-03 0 2-13	9.49			
2	A	.6	52	5.62	1.14	.641	3.21	13.	29.7	adonne Granne
	9		16	3.92	0.89	.501	2.50	Rest	29.7 Ho.4 70.3	Eglorie
	C		83	380	0.86	.486	1.46			Thermie
	T		79	494	1.12	-630	1.26			Me legtone
	MC	0	17	.17	•04	-630 -022 2-283 2-48	-830			P
3	A	1	216	4.78	1.15	2148	3.23	Ban	-0.1	<i>N</i>
	G		82	3.60	0.87	****	2:44	Auger	- 29.7 48.5 70.2	2048
	c		64	3.61	0.87	449	1.47			70 04 1
	7	.3	58	16.66	1.12	433	1.27			7. 1.
	MC		15-	15	+04	1.277 2.55	8.47			
		ķ				2.55-	- 1			







TNA	9 Ban	Cey_	her Cont	Their rolls	Dy	and a		25-17-50	TNA Day	ley - cetur	iction of base	u		
	D	Ynolfal	rates	Original's	Visidaling	No. N	70		2.0	rue MA s	solin anul d	form, hyde	4000 175	Jann
A	.676	5.20	1.10	2.99	0.755	3.78	10.2		10.4 m	C. 17.4 pl	spots.			
G	.428	4.04	0.855		5575-	2.92	8.8	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	17.5				MC	
C	.425	4.21	0.89	2.42	-611		6.8		A	260	Guo	C275. 2	275 212 283	T245
7			1:15	3.14	.794				1 .695	- 1	.457	.432	028 -029 -02	28 .420
	.419	5146					10.0		2 .669		390	.410 .0	014 -017 -016	-404
MC	.025	0.25	0.053	.144	The second second		445		3 .674		432	-434 -0	029 -029 -02;	7 438
					2781	10.23	36.25		4 .667		432	.425 .	-02/ -024 -522	2 .4/3
						4 2 38 4190	52.9		× .676	•1	428	•425-	-025	.419
							89.2	4.1	- 140					
P	second	ed for: 9	12%					x \(\frac{\sqrt{1}}{2}\), \(\frac{\sqrt{1}}{2}\), \(\frac{1}{2}\), \(\frac{1}\), \(\frac{1}\), \(\frac{1}{2}\), \(\frac{1}{2}\), \(\frac{1}{2}	6					
										-	1000			
Re-enten	lated 2	new absorp	Stoneoh	. a Rike	To calif	ten				14	day weight		ng drywt.	Molar
	D	Yenoloful	Patri	tune/s	570 %	Variety				Formel	Cole. fr. bures	Formel	Call februs	ratios
4	(n)								adennie	10.2		.755		1.10
A	-676	5.20	1.116	-730	9.86	3-65-		-	Guannie	8.8		-585		-86
6	.428	3.89	0.834	-546	8:25	2.73		The state of the s	Cytosmi	6.8		-611		.89
c	-425	4.03	0.865	-566	6.28	1.70			Thymne	10.0		.794		1.15
T	.419	5-28	1.131	-740	9.33	1.48			Me Cytosnie	0.45		.036		.053
MC	-025	0.265	0.056	-0388	0.45	0.11			P	9.4		3.03	2.78	
Total			4.002	2.618	34.17	9.67			N	14.0		10.0	10.2	
					49.8				NA. Na sull		89.2			



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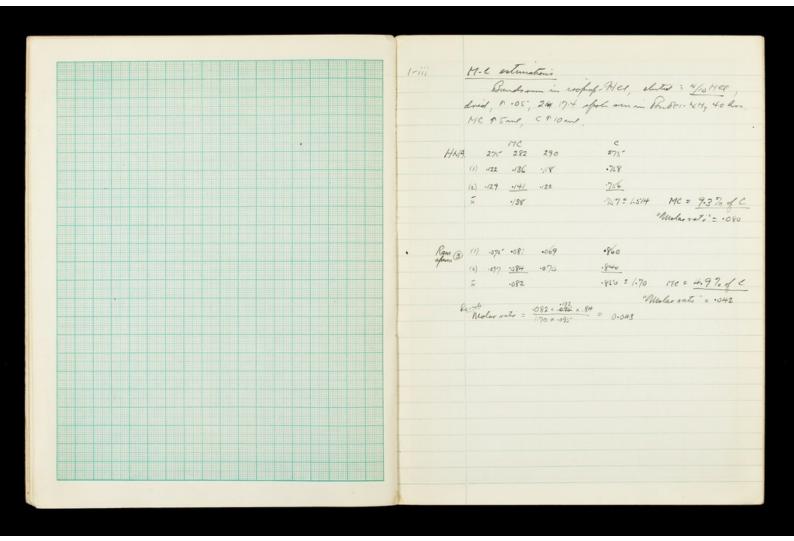
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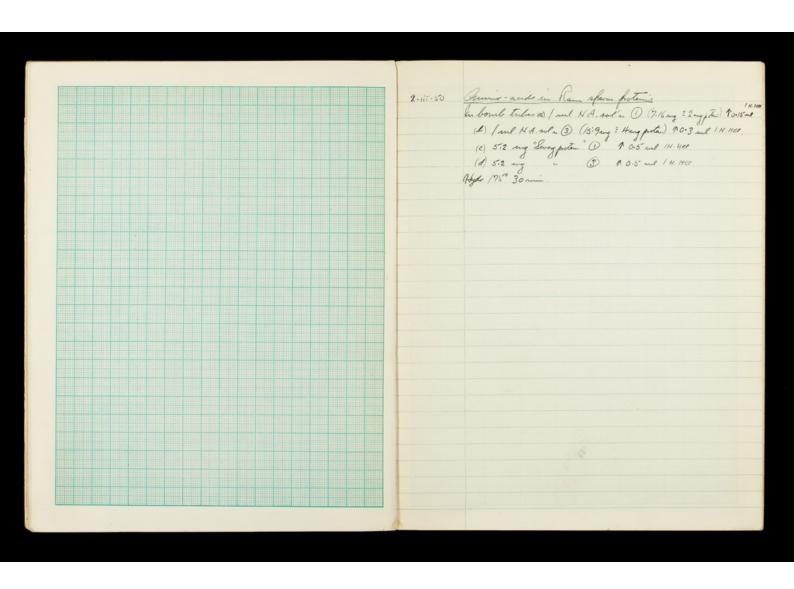
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5-11-50.	MC.	celuna	tionis				
	Co	yreenest	rial Ca	Thymus and	ente, m	in Leofigh - 91	er,
						if, m 40 los	
						wall Hel.	
	- Hartot I	. 3			,		
		The same of	MC		C		
			282	285- 290	275:		
(7)	-203	-225-	•225 -202	1-21		
0	2)	-/83	-207	-207 -87	1.17		
	S.		.216		1.19 €	2.88	" Alco
		mols:	-022			aules MC = 9.3.	
	(2) -	011	+.009	285- 290 +-013 -012 +-006 -006			
	瓦		.006		1.70	= 3.40	
					· ·	16 < 0.18%	
28-17	Bailey	TKA	Treated He	ibentually			
		275	282	290	C275-		
	(1)	-110	./28	./07	1.02		
					0.99		
	5		-1/6		1.01 ::	2.02	
						= 5.8 % of C.	
						/	

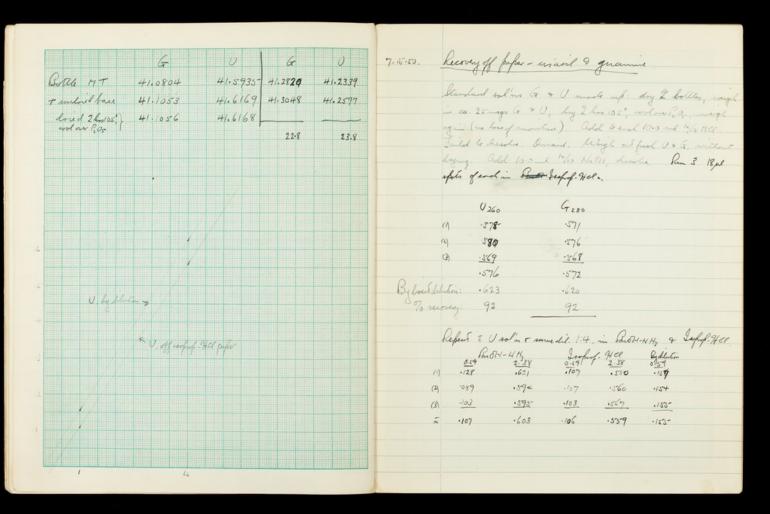
		28-ii Syntheti 5-M.C from Pireso.
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		sol m of squadent Smally uponus. At med operaty
		Lord, made up 3.96 day and in ag lest. 17.4 at apole
		min Solot-140001. HC has tailed a bot or nome T
- 1		Lolin of Exposition "Similarly exprise: Hel", not ofercity died, made rif 3.96 english in of lest. 17.4 pt afortion on in Both 110011. He has tailed a both or rome T referred. Elute He spotin 80 and 150, 1/10 Her, 4/10 Notes,
		Tople in Stal 11/10 HER & SME 14/10 Water.
		Tafel in S'ent 11/0 Het a Sant 11/0 NaO17. 2 H. against population to sange In 574. against 34 (no paper) 230 1014 against 13 sangle 250 168
		240 014 270 .147
		250 017 280 151
		26
		MAI HER N (the Tit blank)
		114 201 26 721 895
		210 727 .87/
		220 6/4 22/ 52/
		230 .261 .41+
		236 .126 .345
		1/25 1/95 1/94' 1/2/6
		250 -123 -125' 254 176' 166' 255 -160 -163'
		260 172
		2700 240
		277 335 277
		285 - 435 - 440 - 3177 - 216 -317 - 312
		290 -399 306 21 -339 716 295 - 30 - 227
		700 198 .139 .207
		316 1030 1026 1068
		375, 1066 1010 1035.
		against fept blank
		250 .409 Britoshy
		281 .4/8
		283 .419





		Re-vale.			2
Yund	Coful Ratios		1/shot		Louis DNA refeat.
		5.64 1.200	34	3-111	Remainder of Louis NA free ful in IN. N. D. 37°
		3.60 0.766	27		ownght, for i Har ETOH, light Heavy 175° 30mi.
		4.02 0.856	22		Run Hafels - infrof Hel, remainder as band for MC.
		5.49 1.169	34.5		Me
1 0	23 +100 MC	.04 0.009	0.25		A G C T 271- 282 290
19			0.28	64	S . 162 . 538 432 .481 .010 .010 .008
	1 /	12.79 4:000			.744 .432 .428 .452 .011 .011 .008
				1	.716 .366 .419 .429 .010 .008
					.730 39 0 .429 .424 .014 .014 .012 5 .733 .396 .423 .435
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					CLOSE DIESE T BURGET TO BE STOCKED
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Synth MC 17.4 pl offis of solin 3.48 mg/ml run in sop of the IT.4 pl offis of solin 3.48 mg/ml run in sop of the I HC or T, both end out, Elnie 3 offits each in 5 ml 1/10 14el. Isfer 17(in 1/10 1/2014, I'm He), mentaly = 1 (loof 1/10 1/2014) Perfect blanks elected in He1, NOON, 140. Read against blanks.

11 contell Tin 140

2822

(1) 1644

(1) 1664

(2) 1664

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(5) 1679 Hee (1)
209 766 772
211 746 770
213 746 770
213 746 770
213 747 MAOH PH7 221 -65+ -516 -362 -423 -223 -0% -242 -046 -642 -243 -049 -647 -688 .380 162 137 104 103 103 103 103 -257 25, 229 .128 102 .141 -229 -240 714. 470 379 287 663 664 571 460 -262 273 .407 .419 216 .401° 240 117 .446 .450 128 .436 .479 .364 .00 .180 374 -032 .036 -030 -007 0 310 +00+

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	5° -82° • -213°
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	0 .012-
	0 .011
	0/1/1-> 0=
	9.6 fml -> .95
	I'm as deluted contains 1: 9.4 x 3.96 x - 3.72 pg/ml
	d' and lutid contains P: 9.4 x 3.96 x 100 = 3.72 pg/ml = 3.72 - 120.
	= 3.74 = 120,
	$\mathcal{E}_{p} = .95^{\circ} \times \frac{1000}{17} = 7,900$
	-/2

Stanfack UV absorption.

Strania weight, chesisted in "10 Native, childre " "/18 Hell.

Regio both, 0.5 ml \$ 100 ml.

Cell corrector (250mp): suttent 0007 from drawderle.

249 650 1.08
250 650 1.07
211 550 1.07
222 .204
223 .199 .334
224 .196 .306

Dof 10 x ml: Roop: .649 x .01 x 100 = .725
808 10 x ml: Roop: .649 x .01 x 100 = .731

H-R: 427 x .01 x 100 = .731

Boul tile MT 10.3389 " + H. A doid 3 hours 10.3695 30.8 mgs. Bushe in 1.0 and HCOTH Popula on 025 and & Line to 250 and for P. N.,
Remainder (0.8 = 246 mg) send off by deology, A 0.75 ml.

Myddoll: a blank .017
.019
g, 0.2 ml 100 arts 205 20-018: 182 = 89.14 N = 145%. 0.5 and 1.14 and a someth 688 filly against water 69 705 = 148 8 P 100 FP 125 FP =.148×2 = 9.6 % =9.9% 0.25 ml ago 350 p. = 76 p. 1300 0.25 ml 70 t P 80 KP Mean = 9.7 % P Early and angles Ration notify rands 1-060 9.33 8.16 .690 7.19 .608 0.934 9.19 3.04 HSS 0.699 505 1.36 5.37 7 8.27 1.40 .700 1.076 8.82 149 0.229 1.86 1.76 0.45 2602 3998 3425 9.70 32.07 -2492190 : 494 Parameter 87%

Bernax N.A. (Sylvie) 10-11:50. 232 g. Berner in IM. Hall to 1500 und, leave in frig. I lays. Olute to 22 lines.

Spin four slightly visions suffered into 12 l. tap

water, wellest stoning fifth by thorning their muchin

lines, in 200 pul (M. Neel willy spin 15 min on Sowall

() briggist feller), to solve add 20 ml HO% Hall, leave 13-11 overaght at 37°. Pfs : Har - EroH, surf. in M Nell pH 10 (twoled) levong till v. little gel (org 3x), dialyse overnight (Parmetis water). Gim on howall 30 min > clear solm. Pf : Ha . ETOH > only faint turbing . all Hel to ph 3, the save H Hel - more ff . Salt without necessary. Spin off. , 275 287 290 Blank .0+7 22 -030 .084 -029 -04- -022 (1) 1:11 .845 .595-.744 183 .199 (t) /.// .846 .597 .744 .184 .199 (3) 1.// .842 .596 .733 .719 .794 (4) 1.11 .835 .594 .739 2 1.11 .842 .595 .740 -052 .052 .084 -195 -197 1.06 T.06 790 656 .172

7.46

0.98

1.27

Rate 1.08

Rate of release of bases by by loolypes in N. Hel at 100° (will Mann).

87.7 mg (are-boy) bef often H.A. checked in 4.0 ml 1/20
Nath. 0.5 ml aptitons fritted into bomb tules; to lack add
0.5 ml cone. Hel > 1 N., stoffer, flood on B. W. B. 7-120 min
Inorganic flooflate ortunated by Mann. 2 18 pl of our from
each run in bout 1 NH, Hi br. (Trong close to bottom)

	19		T	
7' 11				
	.129			
	-222_			
	- Marian			
15' (1)	.547	.008		
	.527	.0/2		
	.537	-010		
30' (1)	1579	-024	.041	
	.536	.024	.039	
	.528	.024	.040	
60 (1)	.508	-036	-068	
	.540	0042	.068	
	.524	.039	.068	
1201	.230	.069	-127	
(2)	-200	-074	-1/5-	
	-2,00	.072	./2/	
Total By rate	.222-	.338	-348	

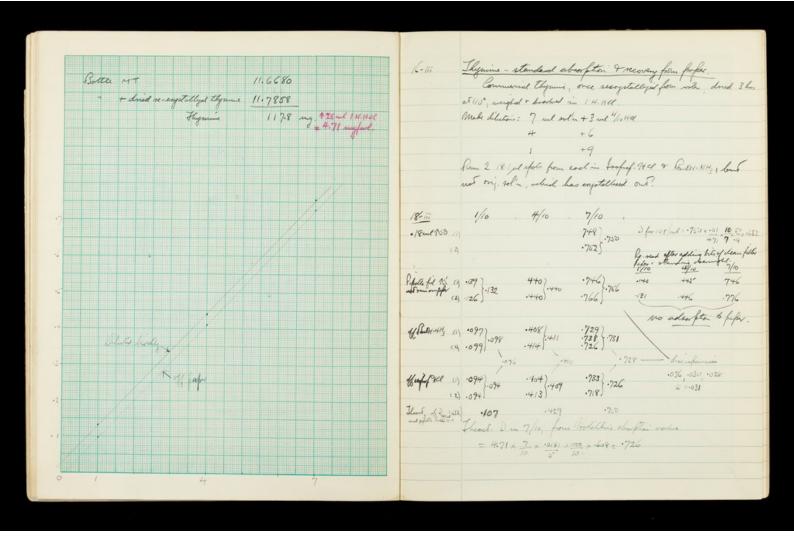
										//	-111-50		5-M-C	Ayuth 9	· W. HWA,	Neun	e,	
													18 ul	sunth 115-1	4.c", 3.48mg	hul 9 18	Estrone.	her
														1		. P.		1
									1			-	MC ex 17 M	2 mm 3 sp	for feach,	in the EH	· 4/43 ·	
									10				Pasal:	H/m Hel N	lo Hatel, 4 mg	Jus 7	about 5 40	0
									1			-	- P	,,,,,		, real parties	- 10	_
													110 Na 6H	E p/1/70	O. Kend	spanned son	reof blank	1
													0 - N	1.5	0 "	e. T	0 00	70
									1				tynth	701401	Sq	Prop.	squite	-
											205				201 -791 -790	1798		
											2/0		421-	161	1/1 .790			
									1		2/5"		774	-788	-715- -632	-746	122 -569	
											225	-	574	-129	.431	.428	.2223	
									1		130		433	.416	-2+0	-245"	-179	
									1		235		-360	-360	1/5"	1/28	328	
									1		245		127	273	212 1069.065	·087.083	-/22	
											256	35	22+327	228 235	.104	.1/4"	212 04 .162	
											255		130	-139	-163	.167	106 40	
											265		276	-279	246	.242	188	
									1		250		384	-323	-357	.338	-24%	
											2.75	27	191 12	-383 115	-5-74	1882	-322	
											280		.348	-337	252 650 406	-616 -632	-394	
											285		-260	451	293 .66 . 44	.564	287 .435,437	, ;
									1		290	-	.0579	*220*	452	.43/	310	
											300		1016	-016	212	- 27/	231	13
									1		305		*00/	-004	116	-115-	-0.28	
											3/0		0	-001	-32	.021	0	
									1		310		0	0	.794	009	0	-
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							-	4										
									1									
									1									

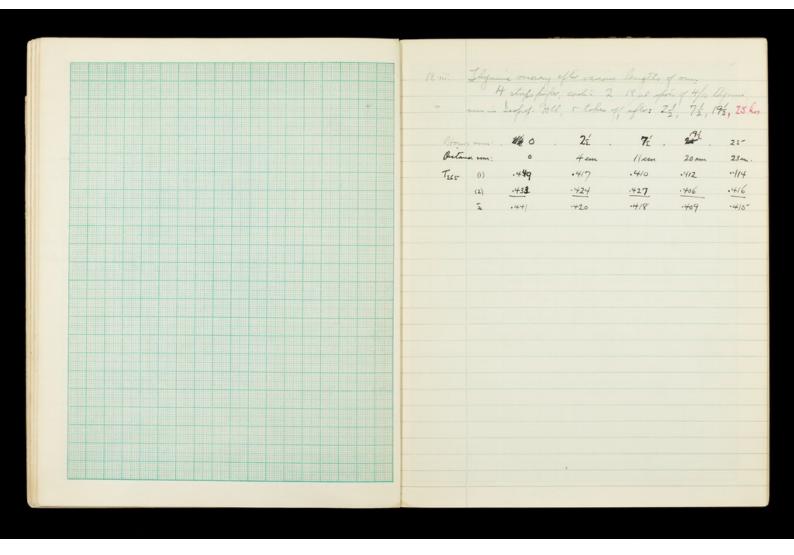
00	MAX	K-FI	0		
			Ce- co	le four new Dushies.	
	Youlfal	Ratio	(motorial	Robin	
4	4.89	1.10	4.89	1.066	
G	4.44	1.00	4.29	0.936	
c	3.27	0.74	3.13	5-683	
T	5:16	1.16	4.99	1.087	
Me	1.12	0.25	1.04	0.227	
	1.72	'	1834	3.999	

	R	1/0			THE RESERVE AND ADDRESS OF THE PARTY OF THE	
		fref, before			by without similar	6
	Spots mit	acted only	I kn.			
	A	· G	C	T	MC 275 283 290	
1	.633	.468	.330	-388	.089 .099 .088	
2	.630	.466	.330	-408	.095 -105 -091	
3	-651	.478	.33/	378	.696 .166 .094	
4	-632	1474	-328	.391	-692 -108 -090	
S.	-636	.471	. 350	.396	.103	
	nc, infor	adding a facel He %	280 460H: .06	285' 287	290 295" -086 -088	

2:4	pette E	ulcen es 18.	ijul.															
	2	de	4-	versky	I Cari	1	1	22	1/4/	15-10-50.		Ram spen	un pactions					
	Total A	1	/			1 me	Wille	my Pful	The state of			Marinis or	rigmil frefin	(1) r (3 (see	20-11-50) 9	- "Leva	a he	Temis
	0	. ,										() . (3) led	Loyal HOOT	4 175° 30mm	. Ru 3	184	april	ind
		rig free	-	2.13	42.6 1	G	05 wl	1.81		1		each run in	in rieful. Hel	·) brown	treak.	1	1	1
		way for		/-33	14.1	0	-/5-	1.25	-	,			11	4				
	2 0	ny Kup										A260	9250	C275	T265-	275	MC 283	290
	La	way ha	9 1	1.17						1 any	11)		394	379	408			03/
	3) 00,	ry hap		3.14	39.6	0	2.5"	248		8		(11	401	376	386	029	028	023
	Se.	Jagfor	1 3	2.22	31.0	0.	.4	1.72				630	397	385	389	03/	03/	026
		81										.611	.397	.380	.394		•032	
		(Co	fred.	P Low	2 605	Sng	60	3 2	ray Art.									
		Yundafrul	CE 12	* Turdyne	St. Historia			2007	14.6	S. pos	(1)	5370	407	38/	365	•3+	032	023
	1									9		530	418	361	378	034	029	622
	A	4.70				7.40						556	416	361	373	641	036 (028
	G	3.74					.92					-332	.414	-368	-372		.032	
	-	3.76					-85	5- 4.44	+ 184									
	T	57/4					1.17	7 6.58	1.25	(3) Ong.	(1)	1 .970	673	602	635-	036	036	330
		< .32		< 32	< .08	< .32	< .05	5 < .28		0		.976	678	578	630	029	029	025
Bases	Total	17.66		16.96		28.17		21.38				.950	678	595	64	030	031	016
long	of P	21.0		14.5		28.8		19.9				.963	-676	.578	-626		.032	
-	a mond							1		1								
										· Efros	ca	.643	549	452	482	026	125-	019
										1		.636	542	444	504	027	627	021
												(41	354	450	524		432	
										1000		× .640	.548	.449	.504		-028	
										-								
										1								

P. fette = 18.1 15-15.50 Ras under and (Mrs. Mam's proparations) RAT NUCLER ACIDS Bone marrows (clear selly). 27 mg, 5 % P. in 5 ml mate. ?: 27 mgl Splean (boom solin): 100 mg, 3.62 % P, on 10 ml water . 9: 502-ye (mospul) Rutis Yudful Kation Of each 20 wel daied Lown, Lyde Heers, 10.3 wel. A 6.22 1.14 1.09 Org: chate forter: 2 x .0181 : 241 G 475 .87 4.61 .87 C 4.74 .87 4.45 .84 275 211 290 T 6.20 1.18 6.29 1.21 1 836 523 490 04/ 033 021-475-< .04 < .05 2 802 502 471 488 022 019 015 3 802 22./3 499 479 466 21.36 021 019 016 476 472 021 018 014 21.0 4 802 494 23.5 .022 2.810 .504 .479 Say as 12 Re-cale: B.M. (wolfed Rutor 4119 469 024 021 016 1745 473 A 62+ 1.160 2 750 478 451 478 036 633 026 G 4.59 0.854 454 497 025 024 018 3 753 484 C 4.55 0.846 445 481 4743 482 029 025- 018 T 599 .450 .481 1114 JE .748 .479 MC 0-12 0.022 (9 21.49 3.996 MC estimation: 23-in . 043 14-V -0+6'

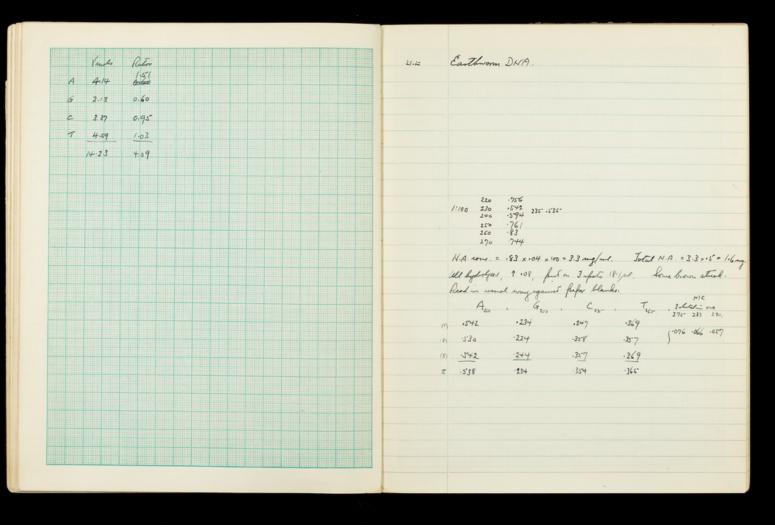


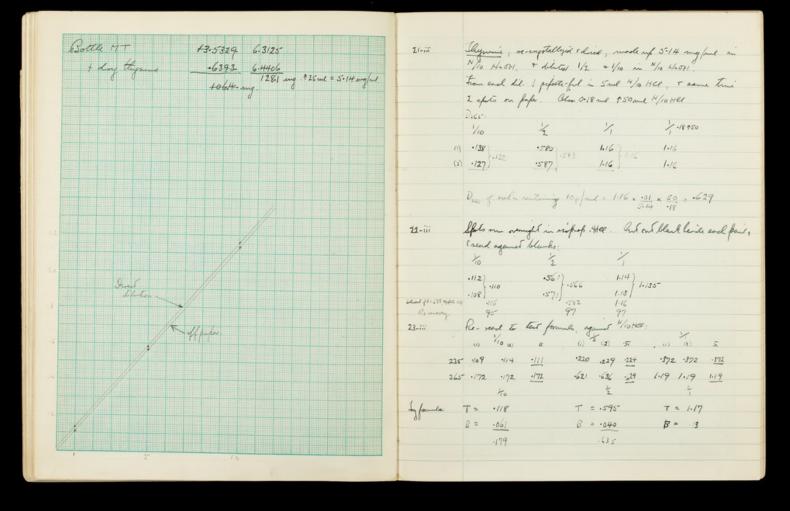


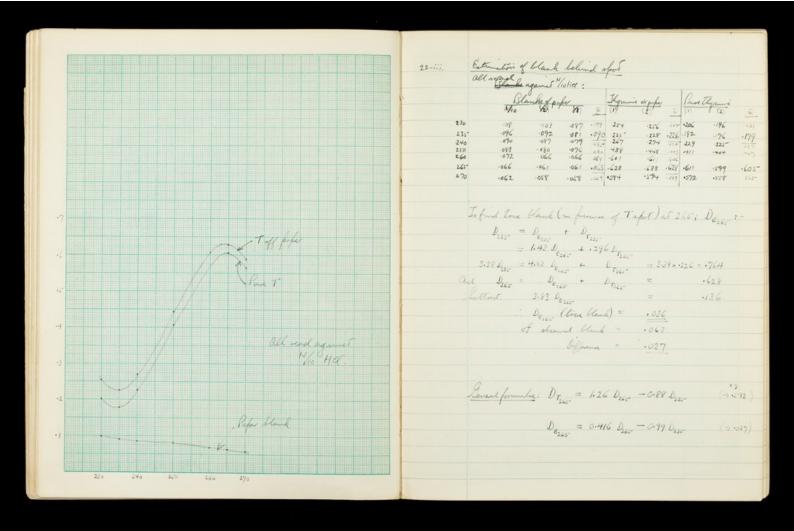
16 misa Court N.A. (4) Bomb Tule 10.8398 homets Tilled ; eller, be wriged, de gotted, Then - + N.A Laid 3 hose 105. 10.8458 very 34 g. Waring blend in 990 Hell, Isani, spin 8 min +000, god superned to J. O. F. or RHA, surp in 99% Halle ofm again. Englin 125 mlovely, ald NA. 6.0 mgs. Abylogu 10-25 ml 125 ml 2 M. Hate, leave in fry arought. Shin of sender of from supered by forming into 6 volo tep water. Spin down Afr. sunf. in 14. Nacd TNESH 7 pH9, shin off miss. material, add 1/10 wel 40% Nast, leave overight @ 37°.

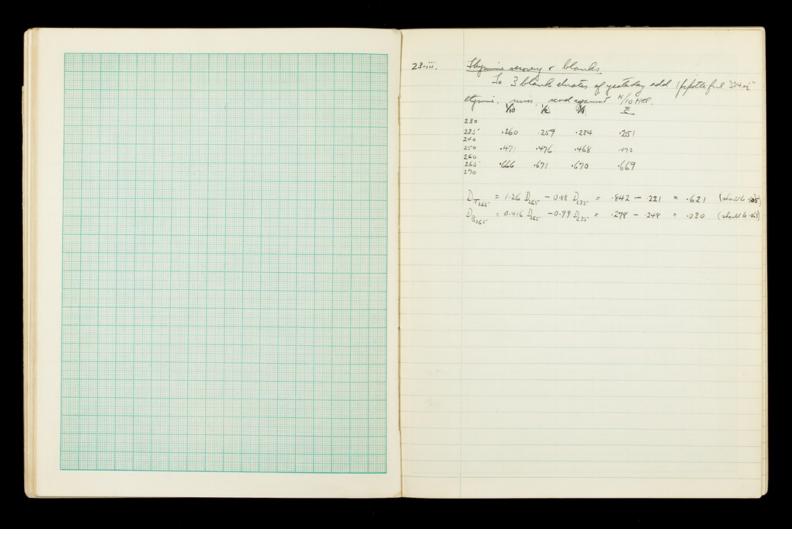
Filts offorme seem, fft : Har - ETON, desolve in IM Hall levery 4 x, fft. 1 160 1:100 . 220 .546 217 .712 200 .077
210 .217 260 .721 200 .077
211 .712 260 .777
212 .717 260 .777
212 .717 270 .021
240 .196 270 .474
210 .474 210 .254
210 .254 210 .254 Senag ogain sweat twin fff work = GON + etter, day 2000 Cognit Yive 12 12 A G . 20 27 . 275 283 290 & Mit read because blank too by. of Mestimation &+TIC band chiate all put in one ofor. ct 275 2717 283 290. 261-Delank .034 Blank .046 .037 131 C - 10ml 2.00 MC - 174720 . 108 089 . 118 MC - B 084 . 1971 . 028 Gramme 45 % 176 = 028 HC Rate = -028 x 102 x 94 = .006

Bomb		10-2021	I :: Schwartz DNA: Ring wanie apris. Rend U + Touly, again pope blanks.
- 4	+ undoid DKA	10.2170	he et h
	Undried DNA	149 mg 1.5 ml	Total Control
		. 4	U260 T264-
			(1) .166 .586
			(c) 168 ·366
			4 .167 .573
			ž .167 573
			Tuests ful 2.07 7.48
			Uffor To RKA = 2.07 = 21.8 %
			affect 10 Kmm 9.63 - 21.8 10

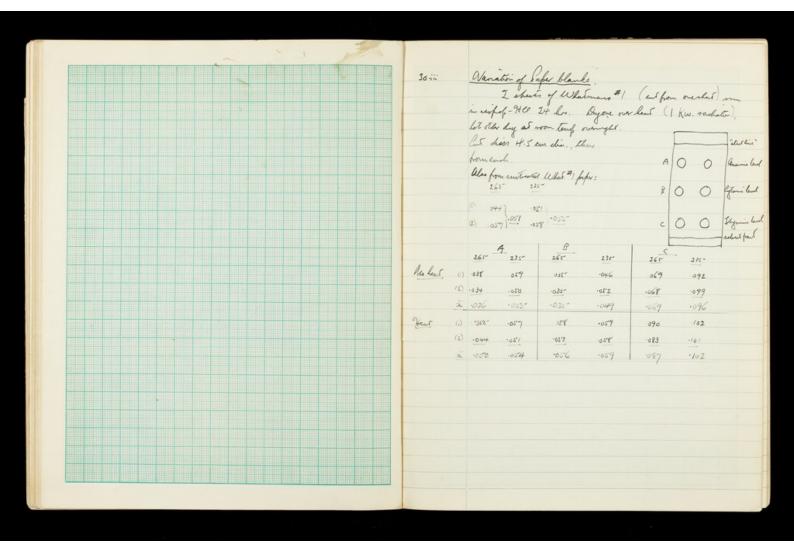


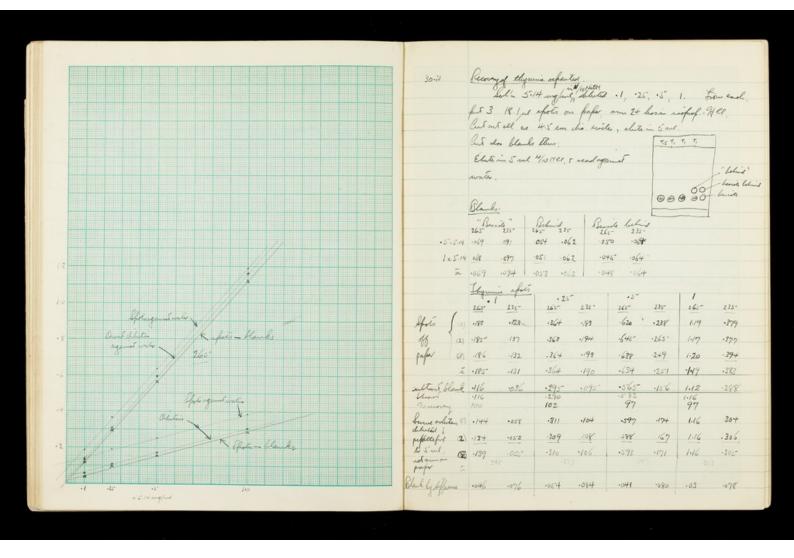






0.5101
23-iii HC ex Rut NA's
Read allagament "To HE: 18 Blank HE, 1862-3 HE, 1462-16
McIslank MC, MC-3 MC. MC2 MC-B
235 107 104 116
250 088 1/00 1999
235 •/07 104 •/16 242 •093 •097 •0/1 250 088 •/00 •599 \$70 088 •/00 •599 \$71 08 •/44 •/81 086 •/47 •/41 088 274 089 •/24 •/16 062 •/40 •/49 077 240 048 •/06 •/01 •013
290 .048 .106 .101 .013
Manor Glam
230 1/30 1331 343
230 /10 :331 :343 :232 :232 :244 :245 :246 :246 :246 :246 :246 :246 :246 :246
145 - 182 - 266 270 - 071
270 072 109 182 095 101 101 0.94
instructing blanks: "Molar rate"
Instructing blanks: "Allolar mate" Manow: C = 0.94 = 1.89 = 186 World 1647 × 102 × 1 = 0.043
MC = 0.062 = 43 parts 6134H2 gl
Jeen. C = 0.94 = 188 7 VMarado, 158 095 042 = 0063
ME = 0076 = corresponde as there to you





30. iii - 50. 5- methyl Gytormi standand absorption data

Process 5-17-6-1768 fromfied by three ffting as from to the allegence of the standard from pretament.

People as in , 3.00 may find absorbed 0.5 me \$ 100 1/10 Hele.

By and water: 284 1.10 245 116

283 1.10 241 116

286 1.08 219 116

286 1.08 219 116

286 1.08 219 116

3-is.

Thom Hyeldalls, obviously not pure. Re-engetably from water, weath i 850+10 class by 2 loss 100°

bol on 41.33 may find that 1:400 min 1/10 Hele

286 186 249 240 100°

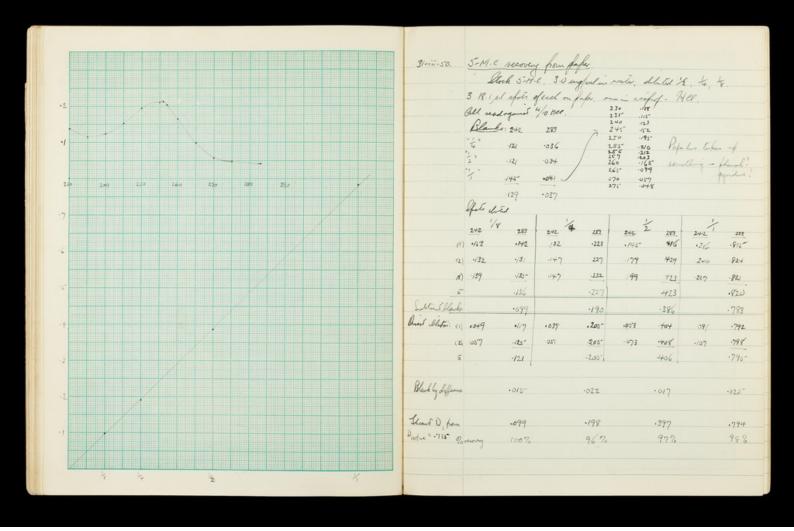
bol on 433 may find that 1:400 min 1/10 Hele

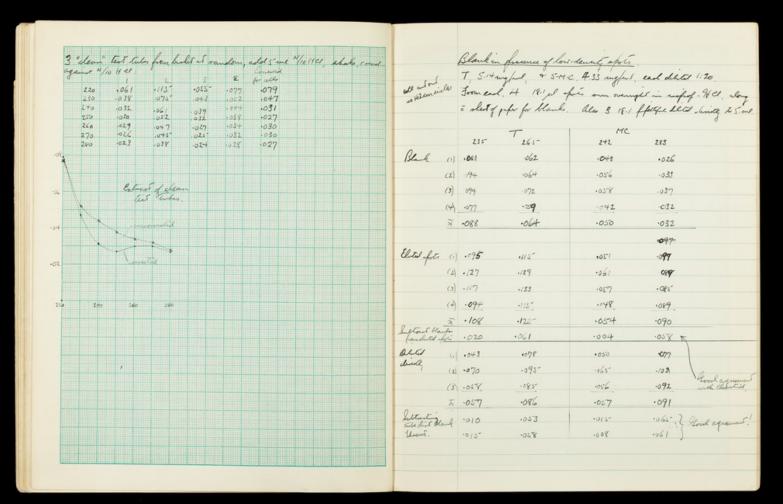
286 186 286 247 087

280 1804 242 087

280 1804 241 087

Dof 10 4/mel = 1801 x 101 x 400 = 1740



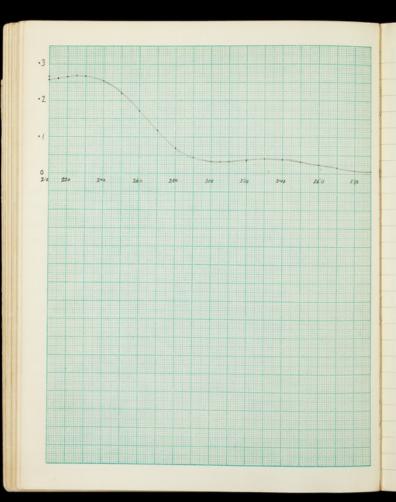


		Corner & for well absorption frombre on
	24-iv-50.	L. monacha DKA. What 0.008 D.
		Jull-grown bealthy leave steward overnight, killed
	;	ether, weighed (= 1/7 g) such m 500 ml . 9 % N/CC
	(Many blendor, stram a squeeze Thon unrelin som
	/	15 mar 02400. Osasol suffered. Such turne in ea 200
		ul 1 H. Hall, leave owngled in frig.
		Sfin den, fore to le vole water of florendent spl.
		for off. 1 14 Nacl p49. all dicrolus. ald /2 vol 40%
		Pft = Har & GOH. > brown pfs. 1 14- Hall pH9, levery 4x.
	1	Pfs. T s. Sel. Hatt Bead on Balance, tolat a Hung unface NA.
		levog 2 x more. Dalyse varight -> nappt.
77		2 ft. That were by low in bout tibe bylogethoon, 1 0-15 ml
		14. Hel. 18.0 pl office.
		fot - but weak. No MC wall
regulation Kings		A G C T
A 248 /37 1.44	1	-2/2
4 101 000 056	2	.319 ./28 ./27 ./86
C 1.21 057 068	3	.328 .//9 ./24 ./8/
T 2:46 1-31 1:43		-3/6 116 127 208
716	2	·322 ·1/9 ·128 ·195
		V[]

2 to believe years and in the "I H NCC " ON H Notes, and 150 g. Mindpelly, feller formed fellow it so years de the state of the state o

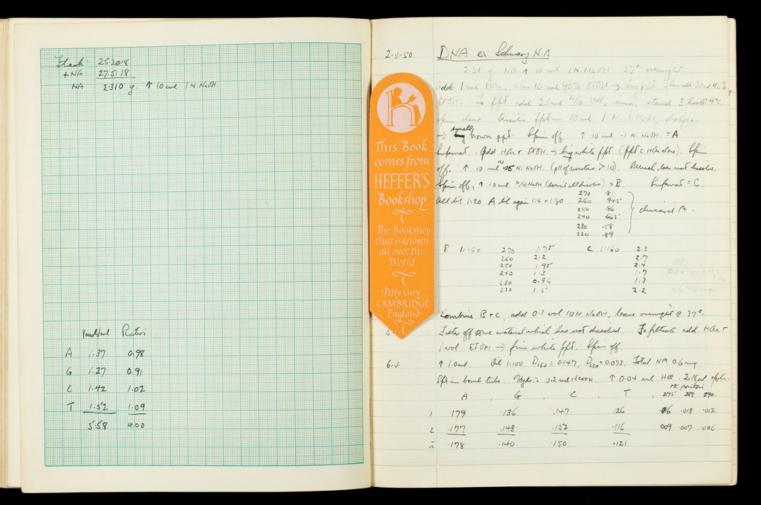
Bottle 71432 + andred TNA 1881 TNA 849 mg. 1 1.5 ml 400 Was White A 671 444 1.115 G 536 0901 .892 486 0806 809 T 673 14 1.119 MC 0 37 006+ .062 2+ 10 3.997 Bailey's TNA Take Formic Ratio reachforic Retir 5.62 1.129 5.79 1.120 1.03 4-50 0.88+ 4.4 0.45 G 1.00 C 4.26 0.849 4.37 0.847 1.03 T 541 1.078 570 1.103 1.05 MC 0.30 0.060 0.29 0-056 0.97 Total 20.75 400 20 72 4000 1.03

	Jest perce	Marie hele	ohpis				
I9-14-50.					land o	2.50	
21-11-11-1	het low	Low	advid, mad 2 bomb trales	000	150 01	Consi	
	he lades in	un l'arre	10.5 ml 1	W. Her			
			(9.2 M) H			24.7	
			H me water				
	all mad.	against one	fots min	Supply			
			, c		,	4C 283	290
BSMA packlorii		.589	.5%	-532		.052	
	-868	611	.813	.547		.020	
	.868	.572		-524		1051	
	-872	.597		.534			
		589			ty	[.osi]	
THA facilloria ,	,739	.500	.450	.426	+624		
	-738	.5/3	.446	.435-	-029		
	.722	.490	.448	.426	.026		
	.730	.501	.448	.429			
		-493				,	
TNA formic	.749	.496	.462	.454	1026	1629	
	757	.520	.463	.454-	1022		
	.750	.494	.45%	.446	.024		
	-752	.503	.460	-452		-028	
	10.12	-495					



Dura	. 00		C				
DNA .	ex Lehw	ar year	U NIF	-			1
2	44 eng.	Keliwan	NA -	Hrul	1 H.N	404 24	Ln. @37°
by Koy	. Pfs	- Hai	9 8807	1-) 1	a febs.	Wal	ffl :
tires	= cold "	10 Hel	my and gra	tobe in	KHLON	Warl dry bown.	- bomb
t. 1. 1	gholpe HI	MOH /75	30'	1 0.1.	- 110	8	
							0111 7.
restrot.	401 -	H LIKH A	fols	+ gell	ns sport	secures, MC	9 U fontis.
Chite ge	llow sfor.	m /10H	er:				
260	-171		270	.//8		340	.038
250			280	-069		350	.032
	-254		290	-044		360	-024
			300	-033		370	-016
230	-267		300	.033			
220	-265-		310	.033		380	-009
2/5	-261		320	.037		390	-006
			330	.040		400	-003
						420	-000
		0.2	- 4		. 00		
Con H	180 pl	apols. \$				Chegod T.	U
A	, 4	, c	235-	265	275' 28	3 290 ,	255 260 265
.286	.74/				-0/4 -0/		030 -03/
-299	-769				.02/ .0/1		·022 ·024
-289	748				.020 -0/		10/5-102/

	Yangah	d	Colisi							30-14-50	,	Sarley T	KA re-mm	for standa	al error.			
	538		1.152	1.1	58							10.81	ng (midnic) 1	Saily's TRA is	boulatile.	Hydrik	per. 1	0
G	4.85											180 Maps	KA re-rum ng (-othnis) i cts. Rend	against paper	blanks.			
4	432	i	-834	0.8	38							(Ingalls)						
7	5.65		1.089	1.0	94							4	, 6	, c	. T	. 275	176	2
	0.22		-043		43						,	.776	.491	-432	.449		-023	
	20 93	j	998	40	01							.790	.524	.461	.449	-023	-024	.0
											à	.761	.487		.447	.017	-020	.0
											5c	.776	501	-455	.448		.022	
													-492					
	-																	



DNA ex Schwarz N.A. Had: 25.2018 + N/4 27.5118 2-1-50 2.31 g. NA 10 wh IN Hatt 37° overnight. Odd I me Har, then 10 me 90% ETOH - briggs I Henrice In the 2, ETOH - briggs I Henrice In the 2, ETOH - briggs I Henrice I have the 2 for Har. when there I have a few House I have the start of the man of the I would I M. MADH = A NA 2:310 g. 1 10 and IN. MASH. Informat. - God Har COOH . - brigashile fft (fft : Handar). Ifin of b. 1 10 ml of N. Natt. (pH of wither > 10). Much does not hisolice. Spin of 6, 1 10 ml 1/10 Mat (Sound all Marche) = B. Enformat = C.

Oll did 1:20 A bit again 1:4 = 1:80 260 942

250 56

240 665

230 .5.8

220 .8.9 \$\begin{align*} \begin{align*} \begin{align*} \lambda 2.70 & \begin{align*} \begi Combine Brc add 0.1 vol 10 N. Nat. I. bare ormys @ 370. Yendful Rution Later of some wateral which has not desolved. Fo filtrate add Har -5.V. A 1.37 (vol. Esor) - fine white fft. Spin of. 0.98 1 1.0ml. Oil 1:100 Diss: 0147, Dizo=0.072. Total NA 0.6 mg G 1.27 0.91 Office bould tube . Pople : 02 ml Horn. T 0.04 ml Hor. 218 pl of the A G C T , 275 28 290. C 1.42 1.02 T 1.52 1.09 1 179 136 147 126 -013 -012 5.58 4.00 2 .177 .148 .152 .116 009 .007 .006 ā 178 .140 150 121

T .4 ml 7100 Dres = 1.27 Leff without hydrolpin , min 18 pl of 1.

G C T 20MC 271 ...
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189 A .195 .195 .195 Penny four formie Recog Compedia Recovery forming aut. A 0.506 85 0.532 90 0567 96 0.2% 44 0.412 76 0574 99 0.663 94 0.670 95 0.674 95 1010 0.974 96 0.941 93 0.842 84 MC 0.087 0.119 137 0.099 114 0.096 110

1-1-50.	and hor	unster of 1	V.A. constitu	ento	Alex	
	arin: 1	ul contains	mir 2.97 s	ne A	0.59	
	1		2.90 2	4 4	-77	
	1	4 4	354 2	of C	.70	
	0-1		0.434	of MC		
	1		5:05	of T	108	
	0.5	-, .	15° meter	autore + 1	2 mgs H3 PO4	
	0.4	- ml mater	IN NOW E	and E	2 studys 113 14	
					de	
E	10.10	il /2000 : /2	054	10 - 1.4 20	1 2 1 12 1	
	Les lours	12.4	I w was	CAME IT SHIP!	44 35 12;	
P		10.4 ml			Pulk est of allow	2
	1 - 7	R	7. 3 /8.0	de cheta :	m BWB 55', col, all 0.	4
C 4 111	you whee.	1340		w. spres	Foreinn.	
1 = 111 cog : # = 225	A	, G	. с	. T	, 275 - 283	
F,		176	.563	545	>23 .078	
L		-/75	368	-542	-479 -083	
3		.176	157/	-573	.086 .090	
	.437	-/75	-567	-533	.084	
Elevate jug mel .	4.56	2.40	5.97	8.78	1.07	
P		.281	-580	-532	.06507/	
2		- 298	.5'69	.5241	.064 .070	
3		-294	-5:78	.529	066 070	
ã		.291	.574	,534	-070	
That pay ful	4.79	3.98	604	8.48	0.89	
d,						

Bottle MT 7.9592

+ G 7.9685 G = 9.3 aug. 100 and 01H NaOH.

+ BSNA 8.1118 NA = 132.8 aug. 100 and 01H NaOH.

Control 35NA. 23.6 aug. 90.8 algorithm high add 0.8 alg.

(auchid Robert

4 408 9487 0.924

C 329 0.964 0.768

I 507 1-42 1.149

NC 0.27 0.465 0.666

Let 17.63 3.792 H.003

ESNA + 9.7 T

Tanchers the register, on 20 tendent January

A 254 257 220 227 343 9.44 9.3 108 H.16 159 227

C 1.78

T 5:46° 268 2.77 22 936 26 95 5.42 254 290

500.	Recover	of base as	ele to Da	A.	
	e a	rusture in 4/	10 HaOH . 2	x/oml do	ed down in Tula.
				form, 1 / ml /1	
					add 0.5 mlay hart.
18 101 ×5 ×1	3 18pl.	fot feacht	& BSHA = pe	reller, on What.	4,
	A	6:	, c	, 7	, 295° 283 290
BSNA packler	.634	. 62	36/	-398	-022 024 -019
2	.623	.454	. 358	.400	-032 -034 -028
	.629	.457	-352	408	-025 .026 .022
36	-629	.458	-357	.402	-028
+G+Tparchlar	.337	.488	.189	. 433	
	-333	.488	1/82	.433	
. 3	-339	.500	.194	.429_	
ź	-336	.492 -482	-188	*-432	
+6+T formi	.323	.487	./77	.444	
7.0	.329	.456	.163	+ .419	
	-238	.458	./72_	.426	
· ·	-330	457	./7/	1.430	0

Mighel wite bouch tule: 10.6 copp. No. o and 1100000 (2000) Popular of Particles.

Personal (0.517 and = 9.44 mg) hydrolyand 35'172" by love, 10.44 mel 14000

P: 0 = 685 = .151 mg = .157× .6 × 1000 = 9.95 %.

150 r P .69 (again Cante) .0859 10.6

160 r P .75

- homosoldy some perentation by wasfrate.

10 / 20 /

[undful Ratio touch for by wasfrate.

4 5.47 +294 1279 529 1210 1.213

6 3.35 0.994 124 3.54 0.402 2.787

c 3.08 0.944 721 3.35 0.966 0.769

T 5.04 +1.74 1179 5.99 1.787 1.990

MC (0.16) 0.037 237 0.17 0.037 0.037

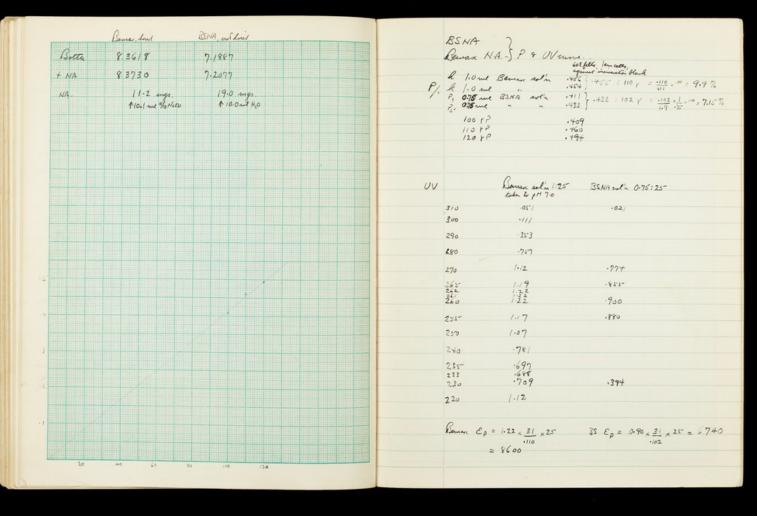
17.10 4006 .000 17.64 44004 3.999

		Celmerte	m spem N	·A.			
55V.		Ca	& we sem	en of Elinin	esculente	roll. yet. 1	45
	-	ancija i ost	tred in frig.	dil. to 2 25	-ne9%	Nice cope !	domi .
		96005. 1	Inf. in 25.	ml . 9% Nall	refin ago	enin .	
		Suf in as	. 25 ml solu	is, all egro	l vol. 2 H. A	(a a -) gel.	
		aris on	Waring B.	leave overney	win frig.	q	
6-V.		Hel	W. ald "	IN HAUTH -> glt	9.0 , spin.	n Wanigh.	of i
		11,000 /-	le. Seper	at stel turk	I formit	500 ml water -)
		stoning by	S. Stonm.	H. + 111	Note leave in	frig.	
Qiv.		fylore	Levy 3x.	1stuni - son	udosta gel.	3 - Tuni -> ala	unture.
		dola dil.	/150 270	./12	,		
			240	490 232 0	go.		
		Λ.				-	
		GS = Hair	ETEN, wesh ?	60, 90, als	ExOH, ether a	by brifly in our	
		Total ws 1	9. Hugs.			MC	
18 openfolia		A	, G	, с	, T	, 275 289	180
What #2.	1	0.710	0.369	0.323	0.388	0.031 0.038	0.008
	2	0.720	0.368	0:326	0.409	0.031 0.031	0.027
	3	0.70#	0.374	0.382	0. A 03	0.017 0.017	0.015
	50	0.711	0.377	0:324	0.400	Ly 60 % nc	
A 11-V			-368			* .016	
Kernsman	1	.686	384	.353	.416	1.013 -014	6/3
2	2	.678	-392	.343	-419	.016 .018 .	0/5-
-	3	.700	383	-364	.403	017 018	016
	51	-688	.386	,353	·4/Z	-0/7	
			-377				

Bel	HHA	7.346 3		8. V.	"Lagaria 2" Tuo & Huo
	7.4994		-,	4, 1,	"Throglanie" Pin TKA & HNA.
+44	5282	7.3708			Da : 13000 0000 (Ca :)
MA	2 8.8 supr.	2 # 5 mg.	each 1 20 out up de	á,	Corbois of BSNA 9 HNA (not bried), weight out of bushed in water if to 20 ml. Pipeta from such I and for digeton for total ?
		(mull, against be	4		
tal Pra 1.0 m	e HNA sola	.445 -105	2 7.3%		I remain 19 me fearly about Hellay or Prengents (as) N.A. Afri. Spin off a rend sufferent, but Africa form
19 1 on	e BSKA	.439	249		blue!
Log "HAA	1020	=4 47 = 0.	2 % Notel .		
	0.36	-6 P -0	3 1 Tel.		
				16-4.	Elinin C+MC
					Minsme (in 10
					1 .088 .094 .082 .905
					2 .084 .093 .081 .930
					= 0.07

							Ras N.A.	M-Au				
	Censhint	Ration			9-1-50.		Remain	der of Mins	Maria Ras	How Wenn	NA.	hriet.
A	4.52	1.130	1./37				desidued in	Inl.	Dil 1:100 Dec	. 158 0,	. 0.78.	Idal NA Gruy
G	3.40	0-862-	0.545-				Pflin bout	tule byd	- Carl 1-10071	7		1
C	3.19	0.800	0.802				3 18 pl apris					10
T	4.69	1-172	1.179								, 275	283 290
MC	.18	·037 (ga	-1 0.45				.5%	.384	.344	382	-020	
	16-00	4001					575	379	-33/2	378		·02+ '023
	15.94					50	·5'94 ·5'88		.529 .336	-372		020 .019
	,						- 0 0	-570	020	1		46
Rus C+	MC-						٥			,		018
					H-V.		C+MC: M 275	Cin Saul	C ~/(
							. 038	283 240	.65%			
							2 -044	-049 -043	-661			
							5	-046	-65-8	Rets = 2.6	TR 75- 7	2 .046
					16-v.		C+me wastle	en (stil e bi	s of streek on ex	Coometopan).		
			-				1 M	283 290	C 10	,		
							1 1/04	1/13 1/0/	1.31			
							2 .//2	120 107	1.31			
							£ .108	-116 -104			7 (03	1
							-116 -	1004 = 1/12	Mola	rate : 13	FX2 95	× 12 0.056

Bailey's TNA los come Lydolysic.	9.450.	Lex of hy	destiping little	& N.A. in my	nd formi	a fifted on hower
undfal Rates		on What	. n2. A	C not protect	nobel.	, con that, an garger
A 551 1.166		A	, 4	, ,	, T	17C , 27: 183 280.
G 4.21 0.890		1 0.706		0.4/7	0.341	0-017 0-019 0-016
C 3.96 0.828		2 0.728	0.467	0.4/8	0.394	0.037 0.012 0.037
T 4.95 1.048		2 0. 417	.463			-027
MC 0.28 0.058 18.9\$ 4600						
SNA ferdleni 3	10-450.	BSNA	berchloric - 3"	ou.		1 epls an Ulas #1.
undful Ration V		· uu	s bydolpus .		3.180µ	1 april as What #1.
A 439 1:100 1:105		4303	, 200	201	.24	, 275 283 290,
G 3.64 0.921 0.904		2 150	.4/4	.351 430 Tebe	946	.042 .042 .036
e 3.32 0.831 0.836		7 .5%0	-410	-346	.348	072 072 478
T 4.37 1.94 1.100		3 .571	.404	.349	-3+7	· 022 (assure)
MC [0.22] 0-055 0-055			-9-			· 021 · 022 (assure)
1594 K.OOL 4000						
89						



Sent nin 771A		18-V-50.	Gordon's	TNA (from	Hamman	teris lab).	
A 5.65 1.11	Yim spat		8.0 18.9pl sfel	engs (not)	loud) byd.	in 0.5 ml 1	160071, 103ml
9 434 0.86	32.7		A	, 4	c	. 7	17C 285 2
C 4.44 0.87	24.6	,	725	474	.45-9	.442	-032 -034 -03
7 5.51 1.09	34.8	2	.736	.484	.469	.43/	.037 .037 .03
VIC 0.35 0.07	2.2		.741				.030 .032 .03
20-19			.734	-485° -008 -477	-467	.437	-03+

Cytilmic Bears Decomy
Bottle 7.50/25 7.2/78 7.7046

+ receleonic 52+8 7.250+ 17.44

Acceleonic 17.8 age 120 mgs 9.8 age

No welcomb -> cone 3.56 agel 2.52 agel 1.96 agele

19-1-50. UV also plan of Goomic mbonile and decompositionale. , 2 ramples sytormi decayaboute from Boar - Delker, doed 2 ho 8 1050, weight ont, 1 5 ml 1420, dil encl 1:100 in ag. Lest. A (util) B (leavy) -01.3 .3+2 290 .275 1.04 1.05-1.06, 1.05 . 298 . 298 . 218 - 216 , 216 1.36 136, 136 260 .826- .643 1.// .2.5.4 230 .868 -673 1.03 .810 1.37 1.34 210 1.08 Molecular estimation confficients Beorgaphini A 1.06 x 227 x 100 = 9560 (No. 227) B .816 x 227 x 100 = 9450 9500 Cytoline C 136 x 2+3 x100 = 9300 (h=243) Hotelbris nytidis 30 x 1/2+3 1 9500

Lytomic ribonile & deoxpribonile in and and alkaling. I de. 1:200, in 1/10 Hd + NAON, -20-1. read against 14ee - NAOTH. Na 07+ HER B(doog) ((vila) B (deoxy) C (nilo) 300 -228 .196 .616 .726 830 290 . 20Z 1.13 1.13 250 279 278 275 401.970 40.4 920 62+ . 794.761-.940 250 130 .410 260 -2+7 218 -/98 747 -114 .195 235 -320 23. -263 .691 220 76+ 215-215-215-210, 212,23 \$25-209 845-206 \$10 .760 Millimster extruction coefficients. Acid: George e = 1.14 x .227 x 100 = 13.2

Riber t = .97 x .243 , 200 = 13.2

Alkalmi: George e = .785 x .227 x 100 = 9.1

Palo t = .655 .227 x 100 = 8.95

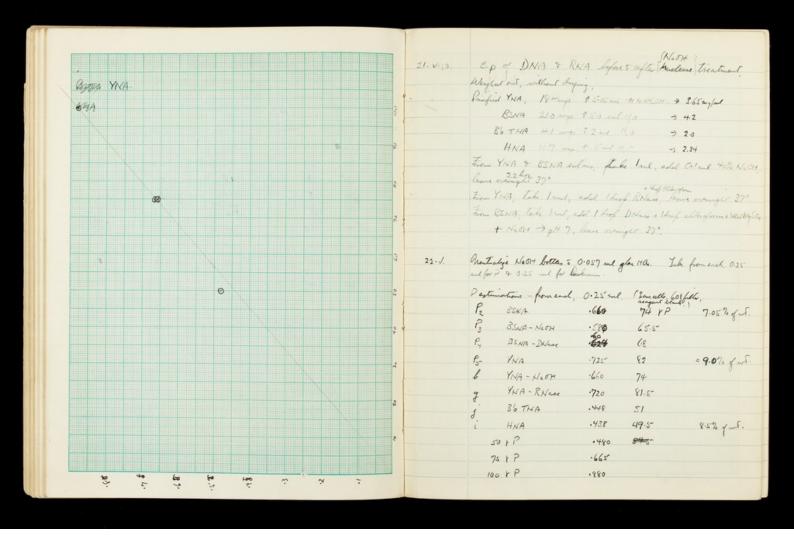
.017

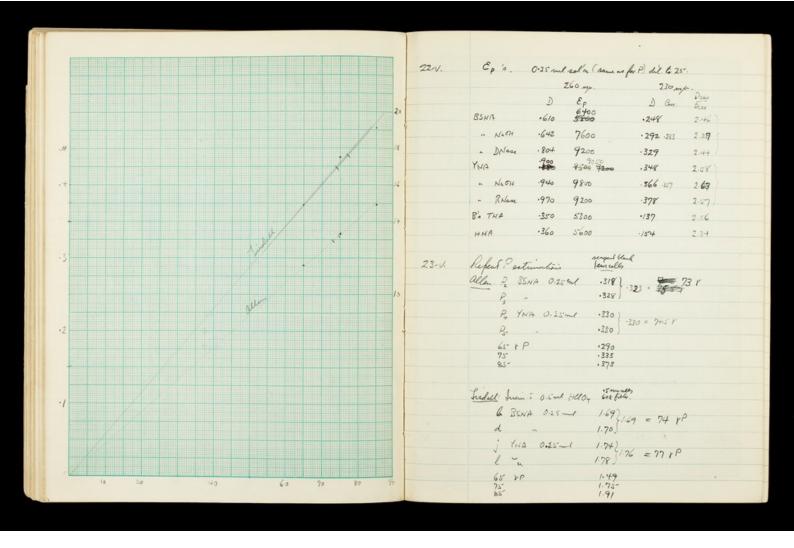
.546

.530 .467 .418 .418

.5.81

.634





Ep
BS WA untitated. Ep = .75% x 31 x 50 = 7150

ofta District 1/370 . 894 x 31 x 50 = 7150

ofta District 1/370 . 894 x 31 x 50 x 555 = 9300

+ 48 la 20 . 934 x 775 = 9700

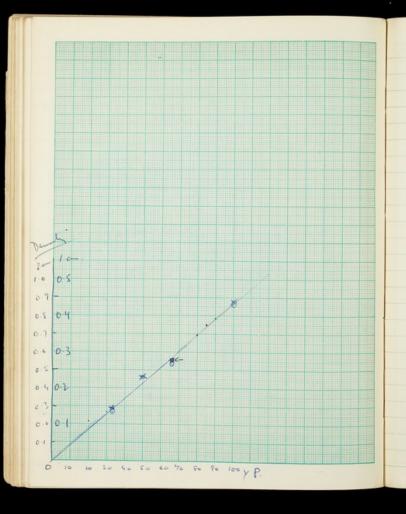
YNA in 0.15 M MM 84 . 996 x 775 = 8900

ofta Rimarlo 370 . 969 x 775 x 554 = 9600

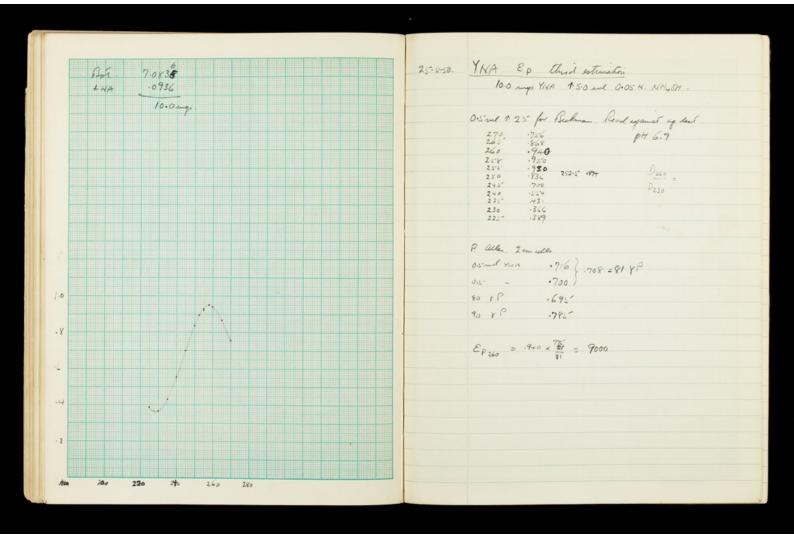
+ 44 la 20 . 989 x 775 x 554 = 9600

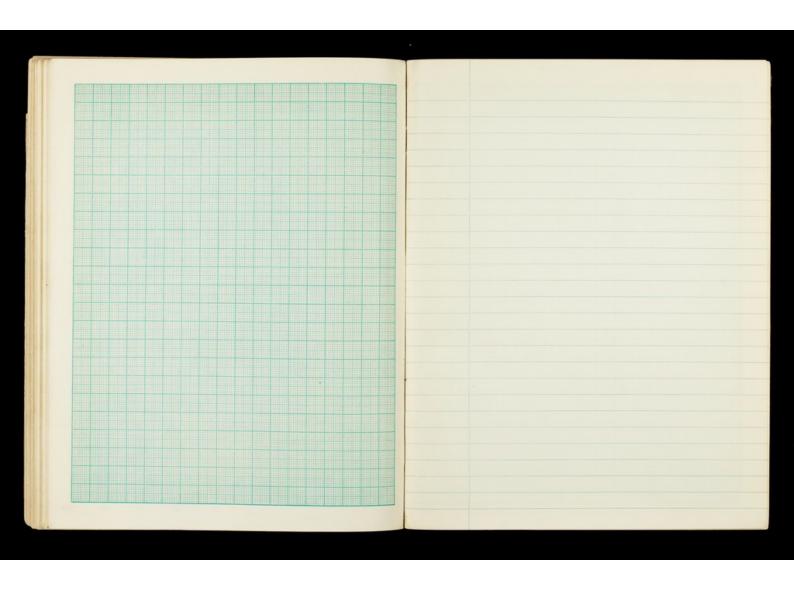
+ 44 la 20 . 989 x 775 x 554 = 9600

	0			
24-V-50.	Reflect Es before rafte 1	Vase Treatment.		
	V			
	YHA weighed 20.3 mgs. 11	0.1 ml 0.15" NH4074	-> 2.01.	mg/ml
	BSNA - 24.9 mg 1	0.0 ml water -	2.49	una la me
	7			7,
	P(alla) a 0.5 ml YNA	7 (2.21)		
	d "	487 FT (account) I	8.65%	and .
	j 0.5 ml BSNA	6821P =	662 dw	f
	1 -)	1	
	YNA: Pefette out 5:0ml, and	ld 0.04 ml Hac (to 0	46) +0.	5 ml
			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
	continuing I Isof RNase			
	BSNA: Papette out 5'. Out, ad	d 0.5 ml contamy do	& D. Wase	7
	1 stal aug 50, -3			
721				- Angelow
	Pus both @ 37 por 2 hon. I dong.	mle 1/10Hell of 50% ET 874.	one pps.	D.60
			0200	0,30
R.A.	Dalane, 10x come in BSNA sol's	D160 Ep	.54	
0.50.4035	, to know a some and			
0.0407124	RName, 10x m YNA sola	.028	.268	
	BSNA untertal	•75%	.317	2.38
	2:	.996		2-35"
			.425	
	BSWA + DHance	.90006:294	.379	2.36
	YNA + RNuce	.975-006=.969	.391	2.47
^				
27-1. Ke. rend	BSMA + DHame	.940 = 934	.386	2.42
Have solin after the solon tout.	YNA + RHOM	.995 = .989	-434	2.15
feel deleter 5725)				



	Dramall.	Allen Ps.
33 y SCA New	0.264	I lonal 0-143.
soy sta oea.	0.460	0.231.
664 Stal New	0.535.	0.278
way six old.	0.863	0.440.
TYM. @ 0.	785.7 020	
TYM. @ 0.	780]	
@ alt	50 by withe	0.361
850 0:72	3 7 0.71	=821P
BS @ 0.69		
Y 0 0.61	5. 7	lifter - 50.72 Peper - 0.74
Y @ 0.7:	20 }	
Y1 1cm.	all 0	364.)
Yz /ema	ile. 0	364.
Rendo YMA 2 m	uls.	
	.533	
85 roll att.	.752	
		- 00 40
Y . Saul	.735- 1.750	= 87 71-
	' '	





			i										
			Ī										
			ł										

·YNA - John's analysis .

I terms of weight (died = 89.5 %).

A 0.754 /mols/mg. 1.25 C .580 0.79

U _.681 0.93

2.93 P 2.76 pmb/mg = 8.56%

N /5.5- %

Ep role from muleondes 11,500.

Wordyli and m E H 9.89

agur, M. 4 G. Rosen 1950. The molice ands of plant haves I. The sale and estimation of descrypentine miles fectore muleie aid Archier of Broilen 25: 262-276 PHA & DHA are estroded : 1 H. perblois and & estempted by F for by UV absorption. Meaned sweet the after perfore treatment: PHD EP = 10,816
Before treatment, PHP 9.800 DKA EP = 8,780 E. Inston: Fine is languight in cold 70% (15th, spin Q 46, 4 washed one & 75% Stor watering 0.170 Hela , Recides is boiled 3 min. in 3:1 88811-etter, 9 repert Reaches is extracted twice questily ; well 0.2 M HERO. PNA: Render = = 1 H. Hela, & 4°C. overnight, & three would & I H. HELO. Combin sufamily for PNA. DNA: Partie in surfice 0.6 N. HELO, Thereof on W. C. 20 min. @ 70°. Refers & continue extends for DNA Kombin are seproducible is Ald leve of 28, 4 agree well Corn root by punstan: PNA H. 6 % of day art.

Bottle MT

+ Calennia (milhinia) 2.2231
297 mg 9 50ml Mettel = 5548 mayfurl

Nyildallar (alling 2hofs 102 OroH Shagnini, Maffelir, minimate 7hm)

R. Cland our 108 March 1080 700 707 475 Hold 76 568 10 lakes

2 188 785 12 2277

R. Cartina U 580 1572 476 = 21.77 2 246 1276 lakes

1 188 14 170

Sola 2.97 myful dil 2.5 1 200 ml 1/10 Her.

260 ·710 262·5 ·719

Deso loyful = .710 x .01 x 200 = .956

24	ulda	u.		He	£.47,	Gmg H.									
P4 Pr	Bla	.k			015								11		
			(bunfa)		765°	٤.	750×			41.0	%	N.		6.4	Drange 12%
		ul V			885			476	÷	22.0	2	N	24	4.6	11.2
Ī		ul c			795° 795°		.782	3.54	=	35:0	%	Ń.	31	7.9	82
ć.	0.3-	me MC			635°			x .476	5	30.3	20	И.	3	3.6	10%
Part.	0.4	m T			.895 900			5.10	c	20.6	1 %	. 4	2	2.2	7%
Tea	kma					D									
	6		150	ml	25	8.5		07							
	U	0.3	1 100		26	o		985							
	C		1 100		27			01							
	MC		1 100 2 1 WO	esta	28		1	00					Ħ		
	1				26			29							

26-iv	50. Re-e	beek standar	l absorptions	9 New	Carlis .	
		Present some by Becliman 2.90				
	470	4.70				
C	3.54	3.54				
MC	4.34	4.34				
T	5.14	5:10				

*

vi-50	Revised s	ame otosh	e mad	'a 0.	06 T.	20 ml.,	Chick	Rube
alls is	16420 1166	-gowl	enat .06.42 N	K .		06425		
283	1.02				287	-568 MIC		
		272 274 276	.504 .506 .+90	4/37				
250	.157							
245	.095	252	-299	.274	25'3	.126 .15	7-	
						*		

3								
26-11-50	5-4-0	abron	lton es	eves.				
	Printing	winth M	11 -			alog. Ital.	11.300	
	- mayan	7	28- V-5	, 7	200	and some	ac .3.1100	
		1100	H			N	OH	
	320	.006				-009	. 4/3	
	310	.024				-014	-075	
	300	.424				.054	.419	
	290	-895-				-284	.704	
	285	1.01	1.02				287.72/	
	288	1.01	1.05					
	280	.00	100		275	5.90	- 613	
	270	-731	.723		270	5-90 -61-6 -63-8 -63-8	425-	
	260	,401 %	.385			.463	-242	
	250	./83	.162	245-106	253	377 252.176	255 . 199 253 . 19+	
	240	128	-098			573	99/	
		*						
	230	.407	378			-757	146	
	220	1.07	1.02		1	1.12	1./2	
	215-211	1.38	1.21	12 1-26		1.36		
	208	1299 1.35			-	- 36		
	203	1-62-1.32	206 1.	18			V.3Xx.3	
	2							
× 10 × /**		Penk		Durhal		m E	- 0013 lug/	
438 -3	Н	283		.785		9.81		
KIPO x 125 - 954	N	274		.501		6.26		
-2 1424	OH	287		.530		6.87		
		Min				1		
	H	242		242 (100)	0.95		
		252		6	376)	3.68		
	ОН	253		(.	1857	167		

.21

Gottle mi + Aleft (moldmed) 7.8633 7.7725-7.7942 7.4575 21.7 mg 23.5 mg 179 mg 5.0 ml 1/20 5.6 ml 1/10 Harzo 5.05 we 4/411 4.70 mg/ml 3.54 mafine 4.34 my/ml These Heorem P. Hank (flat) .018 .018 6 0.4 ml U .870 , .852x .494 x 100 = d ... (122 hd) 24.6% 0.3 ml C .796) : .772 x 49+ 100 37.9 0.3 and Mc (trufal) .73 .93+ 3= 935 x 44+ 100 = 34-0 93% 4 33.6

7-10.55 Strail standard absorption refers.

Cytomic - ex HNA, re-englatelyd troui from alcohol, once
from water, dried at 110-115 5 hours, worldow 200.

5-14-cyt. as of 3-iv. but father dried as above For Wrendings, 3 rollins each dil. 0.3 ml 100 ml 1/10 Her. -. 003 = . 992 . 704 260° 25°9 25°8 1.03 1.00 -.003 = .992 (-244) ·101 (-243) ·198 -247 + .002 = .200 274 275 276 235 234 1.008 .950 -.002 M.C .784 242 ./32 ./32 ./33 -.009 ./23

Claryoff E. P. J. Januarley.

1991. The contain of highly folymough description and makes the part years. [Ill 13:33) 335.

1. Ry bothering and model: I'l. O. M. Heaterle, companies about a make a small in Memory in the market, after, I and my first large for large in trade of makes.

To he after large and the It'l large forms in fair The large file for the file of the file o

5058 .667 myst in woln = 3.96x.0181 11000 - 14.3 V/m Regels of T258 2 10 = 4.0 . (W.S. of M.C. Light of Market = 13.3 Defet of fac Not 150 = 12.3 = 12.5 Defet of fac Not 150 = 12.3 = 12.5 Defet of fac Not 150 = 12.3 = 12.5 Defet of fac Not 150 = 12.3 = 12.5												
--	--	--	--	--	--	--	--	--	--	--	--	--

	absorption of Berkman cells (Forthel) Cleaned = HHO3 = aq. dest., filled = aq. dest. = real 18, 2A, 123, = 1A as blank.
Ш	Cleaned = HHO, F as land, hilled = or deal -
	real 18, 2A, 128, t A as blank,
	18 24 28 5
	205 .005 .01/ .007
	120002002003002
	230 + 003 + 000 + 000 + 000 + 000
	240 + 009 + 017 + 014
	260 004 004 003 +.004
	270 003 002 001 1.002
	280 .005 .001 +.001
	100. 700. 700, +.001
	1001 1001 1001
100	

21	1/	//	/a .	11 v	250		703		
D for	10 Kant	= '66	7 ×		2.38	2	,,,,		
il in "/ D for		atotolis	liss: .	72 × /	-00	<i>a</i> .	72		
٥		= 167	75" × 0	1 × 2	18	= .	740		
		Htelhi	. : liter	0.40	1.00 x	1.18	6	65-	

-
·623 x-02 = .0/8/
620 02 = .018\$

8-iv-50.

8-iv-50.

47 Titus 1.00 H. NasH and .0857 N. Her

1 fitte ful .504

Nol. = .504 x 0357 = .0180 mal.

25-1.

988 1.8 mel 1:100 Hart .5157
.520
.5510
.5510
.5510
.5510
.5510
.5510

Cobbrotor of micro forfette.

By meighing: - (lastoms)

Ful 16.765 655 655 657 657 657 656 658

HT 474 471 477 475 475 478 478

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1 pufelle ful "said Alymin"

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(1) 152

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Defeat by weighing (on south) (Stanton)

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200	220 240	

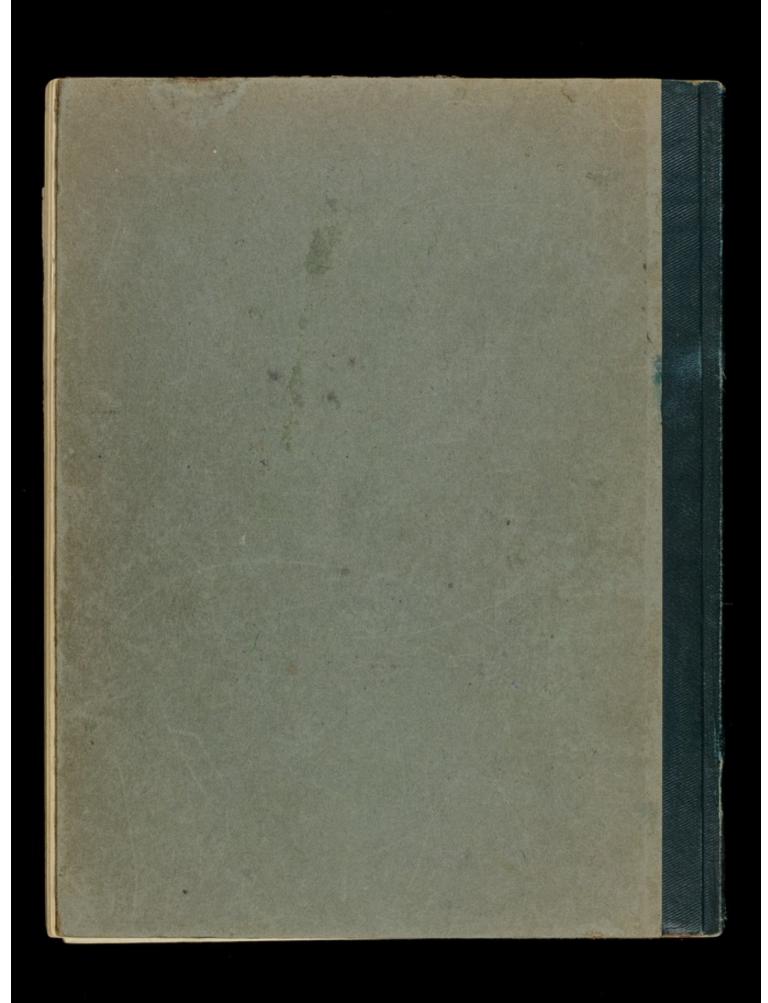
27 age Ass. Stanlard absorption date, revised.

D UV perk for 10 / ml DM 3 13,000 Adenine 135 260 1425) .96 .077 11,000 5 Guarine 151 250 (2+9) .73 .091 7,900 260 (204) .705 -127 Uracil 112 7,950 Thymine 126 .63 .126 2 265-264 Cytosine 111 10,500 275 .95 .095 3 -102 9,800 McCytosine 125 283 .785

Agtornie Veorgribende Stypudine (Hotelhis

13,200

9,500



PLANT VIRUSES.

The Bial Reaction for Pentoses (Militzer's modification).

Pentoses react with orcinol in hot HCl in the presence of ferric ions to give a green solution. When diluted with butyl or iso-butyl alcohol the solution turns blue and the intensity of the colour is proportional to the amount of pentose.

Solutions,

Orcinol. 1 gm. in 100 ml. water.
For use, dilute 10 ml. with 40 ml. conc. HCl and add 1 ml. of 10% FeCl3.

Butyl alcohol.

Xylose solution. 50 mgs./100 ml. (100y in 0.2 ml.).

Turnip yellow mosaic virus. 20 mgs./ml.

ethod.

0.2 ml. of solution containing approximately 50 y of pentose is mixed with 2 ml. of the ordinol reagent in a test tube and heated in a boiling water bath for 8 mins. It is cooled and the volume is made up to 10 ml. with butyl alcohol.

Micro-biurot reaction for proteins,

The biuret reaction may be made very sensitive.

Reagents: 0.5 CuSO₄ solution. 90% Alcohol.

90% Alcohol. KOH pollets.

Procedure

Take the solution of protein provided and add to 1 ml., containing 0.1 mg.-5 mgs. of protein, 1 drop of the CuSO4 solution.

Add 1 ml. of alcohol and an excess of KOH pellets and mix. The KOH salts out the alcohol which carries the biuret colour with it.

Holisch Reaction for carbohydrates.

The Molisch reaction is a test for all carbohydrates bound or unbound (including filter paper) and is a very useful and sensitive test.

Procedure.

Dissolve a few crystals of 4-naphthol in 90% alcohol or chloroform. Add one drop to the solution to be tested and mix. Pour cone. H2SO4 the tube and allow it to layer below the solution. Then mix carefully by gentle shaking. The liquid at the interface becomes warm and a brilliant cherry-coloured ring forms. Any green, black or brown ring is unspecific.

Some other substances such as acctone give a slight reaction.