



1415B3

	1	Count ²	Gal ³ +	Lac ⁴ +	T _i ⁵	6	7	8	9	10	
1	A	88	2/88	15/88	51/88	}	Control				
2											
3											
4	A0	7	1/7	2/7	4/7						
5						}	Azide				
6											
7											
8	2A	92	3/92	17/92	57/92						
9						}	Acridine orange.				
0											
1	B	25	0/25	2/25	8/25						
2						}	DNP				
3	2B	6	0/6	0/6	1/6						
4											
5						}	Acridine orange.				
6	C	38	1/41	9/41	25/41						
7											
8	2C	40	1/40	2/40	20/40						
9						}	DNP				
0											
1	D	9	0/9	3/9	6/9						
2						}	DNP				
3	2D	1	0/1	0/1	0/1						
4											
5						}	DNP				
6											
7											
8						}	DNP				
9											
0											

May 9 2A

2A

B
(and 2B)

19 58

REF:

	1	2	3	4	5	6	7	8	9	10
	GAL	LAC	T ₁	GAL all-	LAC	T ₁	GAL all-	LAC	T ₁	
1	-	-	+	-	-	+	-	-	+	
2	-	-	+	-	-	+	-	-	+	
3	-	-	-	-	w	+	-	-	-	
4	-	-	-	-	-	-	-	-	-	
5	-	-	+	-	-	-	-	-	+	
6	-	-	+	-	-	-	-	-	+	
7	-	-	-	-	-	-	-	-	+	
8	-	-	-	-	-	+	-	-	-	
9	-	-	-	-	-	+	-	-	-	
0	-	-	+	-	-	+	-	-	+	
1	-	w	+	-	-	-	-	-	+	
2	+	+	-	-	-	+	-	-	+	
3	-	-	-	-	-	+	-	-	+	
4	-	-	-	-	-	-	-	-	-	
5	-	-	-	-	-	+	-	-	+	
6	-	-	-	-	-	-	-	-	+	
7	-	-	+	-	-	-	-	+/-	+	
8	-	-	+	-	+	-	-	-	-	
9	-	-	-	-	+	-	-	+	-	
0	-	-	-	-	-	-	-	-	+	
1	-	+	-	-	-	-	-	-	-	
2	-	+	-	-	-	+	-	-	+	
3	-	-	+	-	-	-	-	-	+	
4	-	-	+	-	-	-	-	-	+	
5	-	+	-	-	-	-	-	-	-	
6	-	+/w	+	-	-	-	-	-	+	
7	-	-	+	-	-	-	-	-	-	
8	-	-	+	-	+	-	-	-	-	
9	-	-	+	-	+	-	-	-	-	
0	-	-	+	-	-	-	-	-	+	
1	-	-	+	-	-	-	-	-	-	
2	-	-	+	-	-	+	-	-	+	
3	-	-	-	-	+	-	-	-	+	
4	-	-	-	-	+	+	-	-	+	
5	-	-	-	-	-	+	-	-	+	
6	-	-	+	-	+	-	-	-	+	
7	-	-	+	-	-	-	-	-	+	
8	-	-	+	-	-	-	-	-	+	
9	-	+	-	-	-	+	-	-	-	
0	-	-	-	-	-	+	-	-	+	
1	-	-	-	-	-	+	-	-	+	
2	+	+	-	-	+	-	-	-	+	
3	-	-	-	-	-	-	-	-	-	
4	-	-	-	-	-	+	-	-	-	
5	+	+	-	-	-	-	-	-	-	
6	-	-	-	-	-	-	-	-	-	
7	-	+	-	-	-	-	-	-	-	
8	-	-	-	-	-	-	-	-	-	
9	-	-	-	-	-	-	-	-	-	
0	-	-	-	-	-	-	-	-	-	

2B

↓

↓

↓

A
May 9
~~April 28~~ 1958

A

A0

REF:

	1	2	3	4	5	6	7	8	9	10
	GAL	LAC	T1	GAL	LAC	T1	GAL	LAC	T1	
1	-	-	-	-	-	+	+	+	+	
2	-	-	+	-	-	-	-	-	-	
3	-	-	-	-	-	+	-	-	-	
4	-	-	+	+	+	±	-	-	+	
5	-	-	-	-	-	-	-	-	-	
6	-	-	-	-	-	-	-	+	-	
7	-	+	-	-	+	-	-	-	+	
8	-	-	-	-	-	+				
9	-	-	+	-	-	+				
0	-	-	+	-	-	+				
1	-	-	-	-	-	+				
2	-	-	+	-	-	+				
3	-	-	-	-	-	-				
4	-	-	-	-	-	+				
5	-	-	-	-	+	-				
6	-	-	+	-	-	-				
7	-	-	-	-	-	+				
8	-	-	+	-	-	-				
9	-	-	+	-	-	+				
0	-	-	+	-	+	±				
1	-	-	+	-	-	+				
2	-	+	-	-	-	-				
3	-	-	+	-	-	+				
4	-	+	-	-	-	-				
5	+	+	-	+	+	-				
6	-	-	+	-	-	+				
7	-	-	-	-	-	-				
8	-	-	-	-	-	-				
9	-	-	+	-	-	+				
0	-	-	+	-	-	+				
1	-	+	-	-	-	-				
2	-	-	+	-	+	+				
3	-	-	+	-	-	+				
4	-	-	-	-	-	+				
5	-	-	-	-	w	+				
6	-	-	+	-	-	-				
7	-	-	-	-	+	-				
8	-	-	-	-	-	-				
9	-	-	-	-	-	-				
0	-	-/w	-	-	-	-				
1	-	-	-	-	-	-				
2	-	-	-	-	-	-				
3	-	-	+	-	-	+				
4	-	-	-	-	-	+				
5	-	-	-	-	-	-				
6	-	+	-	-	-	-				
7	-	-	-	-	-	-				
8	-	+	-	-	-	-				
9	-	-	+	-	-	-				
0	-	-	+	-	-	-				

May 9 **C**
1958

2C

D (and 2D)

REF:

	1	2	3	4	5	6	7	8	9	10
	GAL	LAC	T1	GAL	LAC	T1	GAL	LAC	T1	
1	-	-	+	-	-	+	GAL all-	-	+	
2	-	-	-	-	-	+	↓	-	-	
3	-	-	-	+	+	-		+	-	
4	-	-	-	-	-	-		+	-	
5	-	-	-	-	-	+		-	-	
6	-	-	+	-	-	±		-	+	
7	-	-	-	-	-	-		-	-	
8	-	+	-	-	-	+		+	-	
9	+	+	+	-	-	-		-	+	
0	-	-	-	-	-	+		-	-	
1	-	-	-	-	-	-		-	-	
2	-	+	-	-	-	+		-	-	
3	-	+	-	-	-	-		-	-	
4	-	-	-	-	-	+		-	-	
5	-	-	-	-	-	+		-	-	
6	-	-	+	-	-	+		-	-	
7	-	-	+	-	-	-		-	-	
8	-	-	+	-	-	+		-	-	
9	-	-	+	-	-	-		-	-	
0	-	-	+	-	-	-		-	-	
1	-	-	-	-	-	+		-	-	
2	-	-	-	-	-	-		-	-	
3	-	-	+	-	-	-		-	-	
4	-	-	-	-	-	-		-	-	
5	-	-	-	-	-	-		-	-	
6	-	-	+	-	-	-		-	-	
7	-	-	-	-	-	+		-	-	
8	-	-	+	-	-	+		-	-	
9	-	+	-	-	-	+		-	-	
0	-	-	-	-	+	-		-	-	
1	-	w/-	-	-	-	-		-	-	
2	-	-	-	-	-	+		-	-	
3	-	+	-	-	-	-		-	-	
4	-	+	-	-	-	-		-	-	
5	-	-	+	-	-	+		-	-	
6	-	-	-	-	-	+		-	-	
7	-	-	+	-	-	-		-	-	
8	-	-	-	-	-	+		-	-	
9	-	+	-	-	-	+		-	-	
0	-	-	+	-	-	-		-	-	
1	-	-	-	-	-	-		-	-	
2	-	-	-	-	-	-		-	-	
3	-	-	-	-	-	-		-	-	
4	-	-	-	-	-	-		-	-	
5	-	-	-	-	-	-		-	-	
6	-	-	-	-	-	-		-	-	
7	-	-	-	-	-	-		-	-	
8	-	-	-	-	-	-		-	-	
9	-	-	-	-	-	-		-	-	
0	-	-	-	-	-	-		-	-	

5 May 1958

REF:

Ultimate purpose: compare aside effects with $A_2^+ \sigma^+ v \sigma^-$.

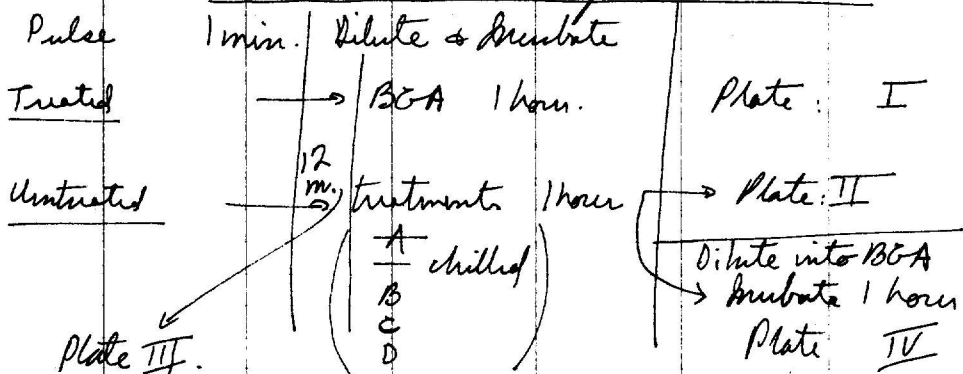
Below: A = - ; B = Aside 100r/ml C = according orange 60r/ml D = DWP $\frac{M}{1000}$
 [Note: agglutination of σ^+ in C.] Make up 2 x in BGA.

Design: Effects on maturing (during pulse); Effects on entry (after pulse); Reversibility.

I Treat each parent type and during mixing; dilute, incubate & plate.

II Dilute untreated pulse into inhibitor serum. Incubate.

III Redilute these and incubate further.



Reversibility of inhibited entry is tested after 12 minutes.

8 PM H. W3060, W3064 refreshed from ORC 5 tubes each harvested into 0.5 ml (100) in BGA. Chilled until used. Timing by chilling in ice water.

I add 0.1 ml each parent + .1 ml inhibitor. Mix and incubate 1 minute (pulse) Dilute $\frac{1}{10,000}$ in warm BGA & plate at 60 m. (10^{55} #/ml) : I: A, B, C, D.

II. Tube A at t_1 (1:100) and dispense 1 ml to each of 5 tubes. Chill at t_2 . (Plate II) A0 - keep chilled. A, B, C, D add equal vol. inhibitors and incubate $10^{20} - 11^{15}$

III. ~~Plate after~~ 1:50 dilution at 11^{05} plate II incubate 1 hour + plate III.
 Note: water bath went to 43° at 11 PM.

Counts: IA - 0 prototrophs. II and III series all 0!
 IB } 25 prototrophs
 } 38
 } 26
 Faulty IA? Or do the inhibitors "encourage maturing"? If they do not inhibit maturing they do appear to inhibit entry and according to B reversibly.

6 May 1958

REF:

0.05 ml
samples
plated.

1
2
3
4
5
6
7
8
9
0
1
2
3
4
5
6
7
8
9
0
1
2
3
4
5
6
7
8
9
0

Repeat 1415 in view of 43° incident. Change design to measure entry of T2.
 Uses same cells as yesterday (chilled at 100X).
 Pulse (1:1:2ml fresh BGA) 7 minutes at 37°. Chill and dilute 1:100 in BGA
 dispense 1 ml volumes of dilution. Add 1 ml of inhibitor. AO = chilled A (not inc.)
 incubate 30 minutes. (Plate serials at 1:50 diln.) Dilute all samples 1:100 in
 1 Plate A only at t₀ warm BGA and incubate 60 m. Plate at 0.1 ml.
 2 Plate AO, A, B, C, D at t = 50.
 3 Plate AO, A, B, C, D at t = 110
 4

Needs reinitiation, counting, and full scoring. Got sec T₁
 series 2 shows inhibition of entry
 3 its visibility.

29 May 1958

REF: -6

-6 suggests that concentration of ~~the~~ azide used here was too high for activity even of $A \times R$ parents. Try column 2 of yesterday's report with range of concentrations added at $t=0$. Trine $R \times R$ killing. ORC cultures resuspended in paraffin and chilled. 2.5 ml each mixed for par crosses. Same as 1415-6.
 Note: use of ORC cultures today. Various concentrations of azide, added to .9 ml each cross while chilled. Make up $(\sqrt{10})\% \times 10^{-\frac{n}{2}}$ serials.
 i.e. ~~3.16%~~ ~~1%~~ .316% .1% .032% .01% 0 final conc.
 from 10x these conc. spike solns.
 (A1-2-3-5 are halved in volume). Dilute $1/1000$ at 45' incubation and plate .05 ml on $D_{sm}B$. (No blending)

O = 640 PM

Counts. 3 PM 31 May

	decreasing azide				
	1	2	3	4	5
A SS	0	0	7	51	38
B SR	0	1	6	18	44
C RB	0	1	43	108	100 400
D RR	1	10	41	118	388

↑
↑
effective threshold concentration.

But A5, B5 \ll C, D.
conclude W3060 neg.

No indication of a differential effect of azide. ~~Even~~ S:S ~~cross~~ shows same yield reduction as $R \times R$. Need to reconsider plan



19 May 3rd 1958

REF: 1416

1	2	3	4	5	6	7	8	9	10
---	---	---	---	---	---	---	---	---	----

DNA - LEAKAGE.

W3060, W3064 rotated to saturation or almost (2^{1/2} hrs)
9 cultures each.

Suspend in BGA 15x after one washing.

NBC : not blended controls

BC : blended controls

M : mixture, blended

Sample at times indicated, 0.5 ml into 3.5 ml of chilled Dm to be spun.

(M): 1.5 ml ♂ + 1.5 ml ♀ ; incub 37° for 10' → blended → incub. →
↓ time 0 ↓ 20' ↓ 40' ↓ 60'

(BC) 1.1 ml ♂, blend → incub 37°
↓ time 0 ↓ time 60'

Same for ♀

1.1 ml ♂ + 1.1 ♀, both blended before ; → incub.
↓ time 0 ↓ 20' ↓ 40' ↓ 60'

(NBC) Same as BC, but unblended suspensions.

All blendings: Vortex 30" —

Notes: Caldwell & Hingelwood for amount of DNA in
 Bact lactis aerof as : 2 μg DNA-P per 10¹² cells.

P-content of DNA is 9%. Hence 220 γ per 10¹⁰ cells.

Sensitivity of method: 259 μg : E(P) = 6650.

MW of a nucleotide: 354.

5 γ/ml should give E = 0.10.

Control: 2.5 - 15 μg/ml.



	1	2	3	4	5	6	7	8	9	10
1	Tube Number:									
2										
3										
4										
5	1	BC, ♂	Time 0							
6	2	"	"							
7	3	"	"							
8	4	NBC ♂ + ♀	"							
9	5	"	"							
0	6	"	"							
1	7	M after blending	"							
2	8	BC ♂ + ♀	Time 20							
3	9	NBC " " "	"							
4	10	M Time 20' after blending.	"							
5	11	BC ♂ + ♀	Time 40'							
6	12	NBC " " "	"							
7	13	M Time 40'	"							
8	14	BC Time 60'	♂ + ♀							
9	15	BC " "	"							
0	16	BC " "	"							
1	17	NBC " "	"							
2	18	NBC " "	"							
3	19	NBC " "	"							
4	20	M Time 60'	"							
5										
6										
7										
8										
9										
0										
1										
2										
3										
4										
5										
6										
7										
8										
9										
0										
1										
2										
3										
4										
5										
6										
7										
8										
9										
0										

] mixed by mistake.

(0.2 instead of 0.5).

At the end after dilution: cooled, centrifuged twice, stored at -20° until read in the spectrophotometer.



	1	2	3	4	5	6	7	8	9	10
1			Difference in	E	between	260 & 240-				
2			BGA	=	-13.	Correction	applied	to	all	
3										
4										
5										
6										
7			BC		NBC					
8			Blended		Non					
9		Time	controls		Blended					
0					controls					
1	♂	0'	11		19					
2		60'	39		23					
3	♀	0'	16		16					
4		60'	28		-					
5										
6										
7	♂+♀	0'	11		4					
8		20'	13		-					
9		40'	11		12					
0		60'	18		20					
1										
2										
3										
4										
5										
6										
7										
8										
9										
0										
1										
2										
3										
4										
5										
6										
7										
8										
9										
0										

Blended
Mating

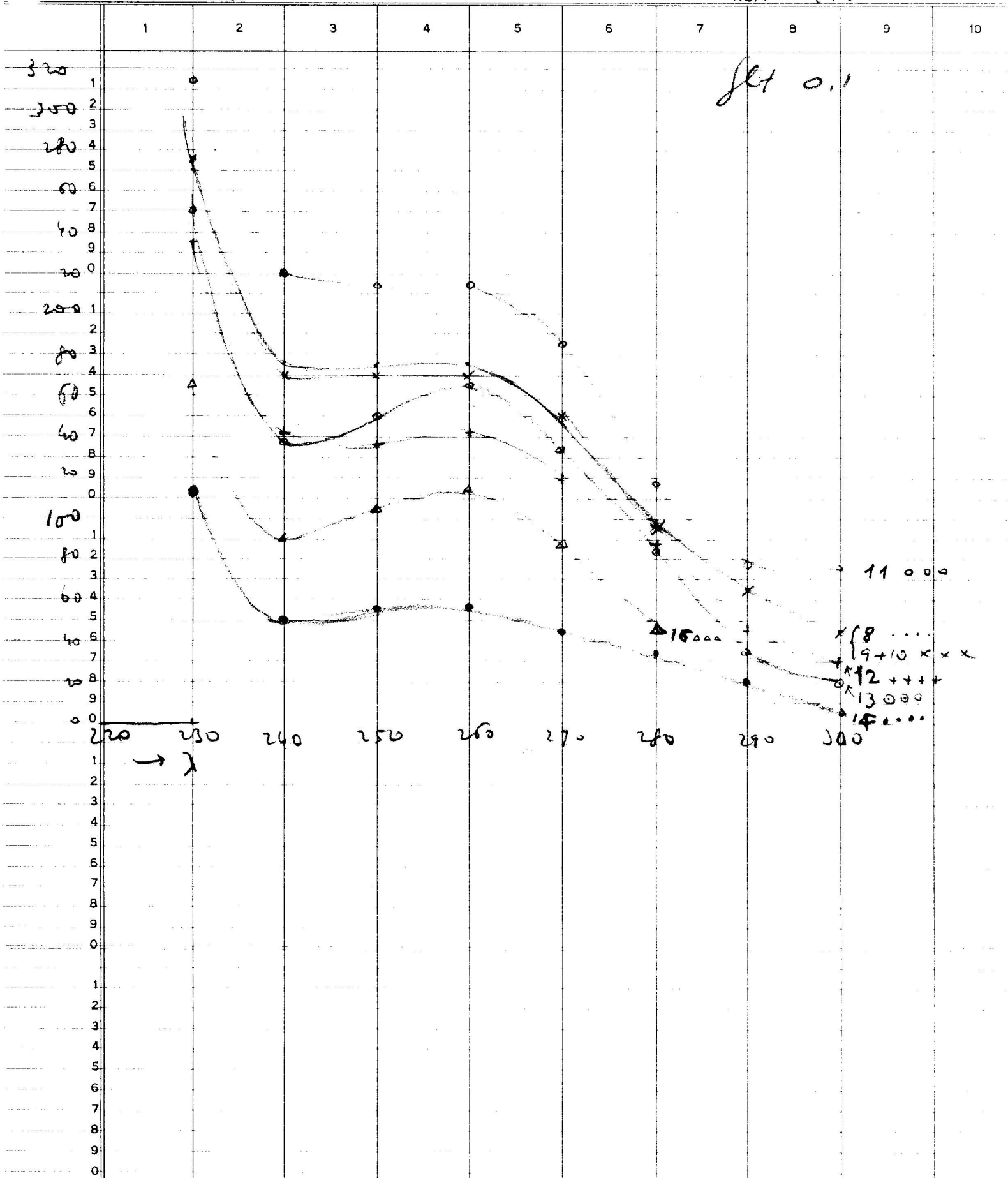
43
25

Slit 0.1

19

REF:

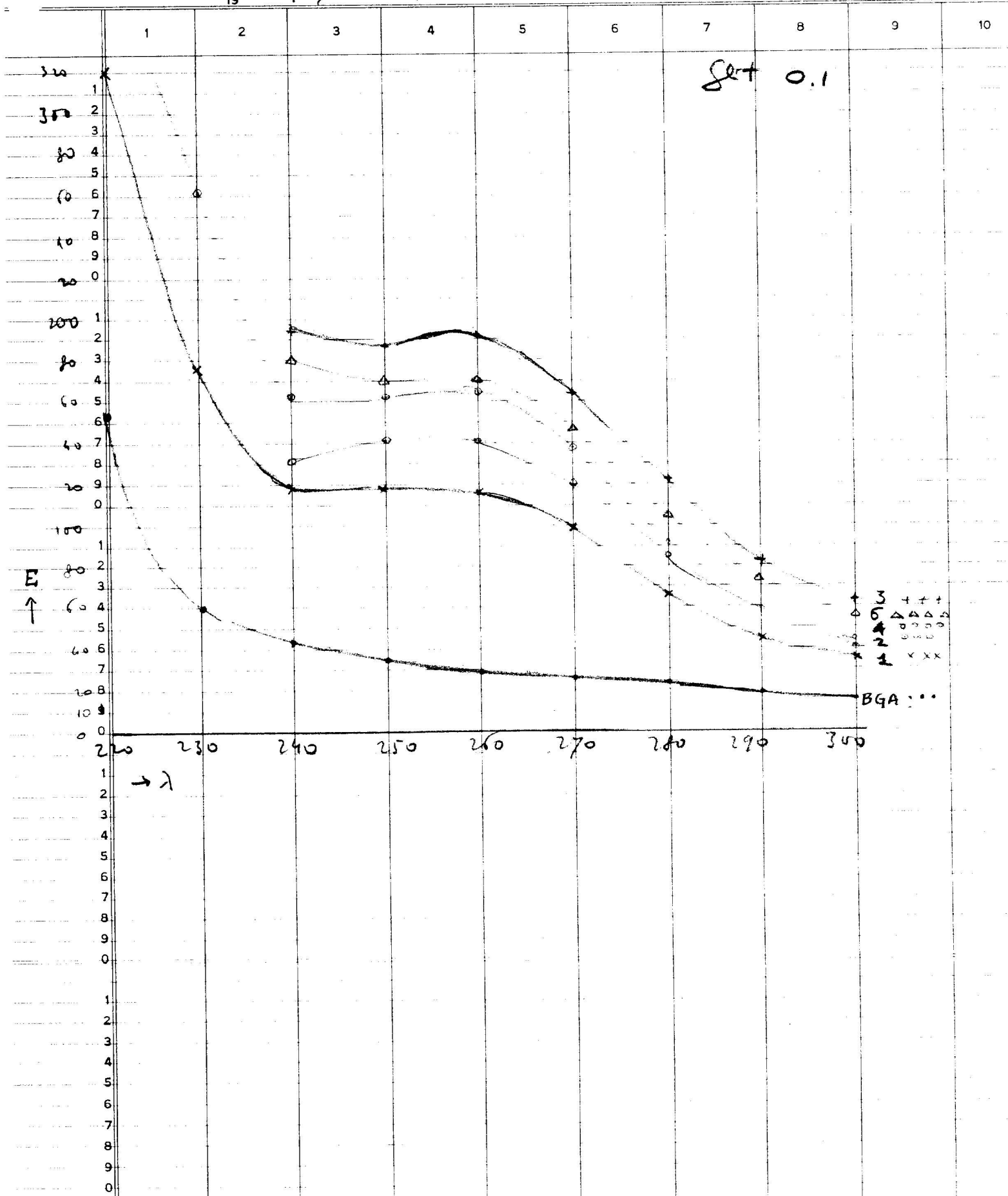
	1	2	3	4	5	6	7	8	9	10
	220	230	240	250	260	270	280	290	300	
BGA	500	.059	.042	.035	.029	.025	.023	.018	.015	
1	520	.175	.117	.118	.115	.098	.063	.045	.034	
2	560	.262	.162	.162	.165	.138	.092	.058	.040	
3			.194	.187	.192	.163	.122	.082	.062	
4			.132	.142	.141	.120	.87	.35	.044	
5										
6			.180	.170	.171	.147	.105	.73	.058	
7										
8	.450	270	175	175	175	148	.098	65	45	
9+10	500	275	170	170	170	150	.98	65	45	
11	500	315	220	215	278	185	118	78	55	
12		235	143	138	142	120	.88	45	30	
13		250	138	138	165	134	.85	35	20	
14		115	50	55	35	45	35	20	05	
15										
16		238	132	142	147	110	65			
17		162	148	105-148	115-116	85-80	45			
18		242	148	150	155	125	85			
19		172	130	140	142	120	77			
20		235	155	155	165	140	94			
21				No. 13	No. 16					
0	Tube No 13		230	240						
1	Slit .05		232	200						
2			4	180						
3			6	155						
4			8	154						
5			240	140						
6			2	142						
7			4	145						
8			6	148						
9			8	152						
0			250	152						
1			2	150						
2			4	162						
3			6	162						
4			8	163						
5			260	170						
6			2	166						
7			4	167						
8			6	158						
9			8	143						
0			270	138						
1			2	122						
2			4	120						
3			6	110						
4			8	90						
5			280	72						

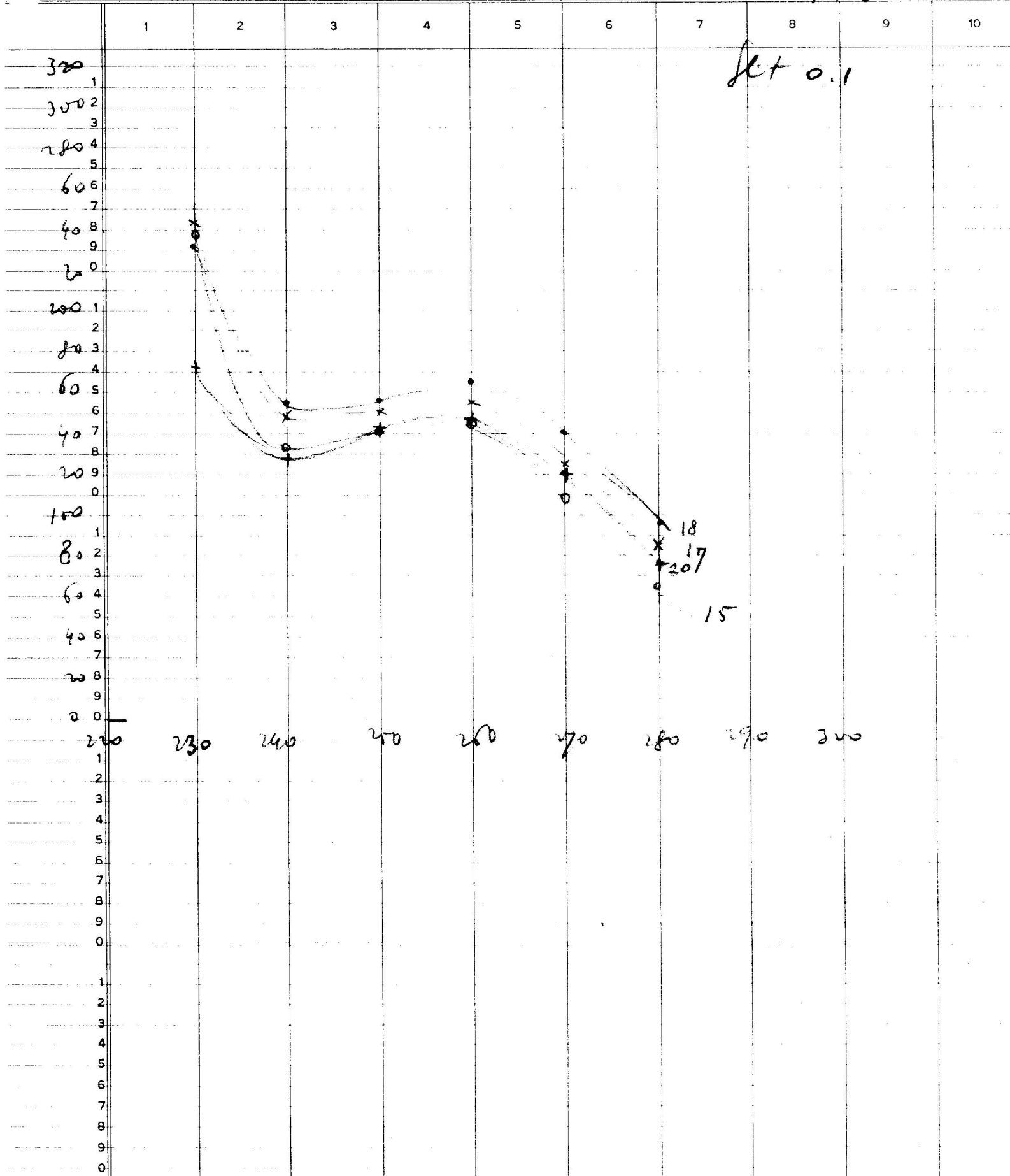




19 May 7, 1958

REF: 1415.







1958, May 8th

REF: 1417.

W1895. exp. culture, * 1 ml + 7.5 Penaffay, 2 1/2^h rotation
W3064 24^h cult. same.

Spun, resuspended in Penaffay 0.2 ml per tube. (50x conc)

♂ 0.1 ml + ♀ 1 ml. 9' pulse in water bath.

Dilution 1/1000 in broth.

At 10', 20', 30', 40', 50', 60' blend and plate 0.05 of undil., ~~1/10~~, ~~1/100~~ on Blac fm, and of ~~1/10~~ on D(B₁St) and D(O).

Plate recombination control: C

Control of recombination in diluted mixture: D

- D: dilute W1895 ^{4 W3064} conc. susp. 1/1000 in broth, mix 1:10, incubate 60'. plate undil., ~~1/10~~ Blac fm, and ~~1/10~~ on B₁St, D(O)
- C: same: plate from 1/1000 dilutions W3064, 0.05 ml and 0.01 ml of 1/2500 dil of W1895. on Blac fm, D(B₁St), D(O)

* 3 parallel cultures kept in frig for reuse.

Photometry of 1/1000 dil. in water of conc. suspension:

♂ 68% } λ : 650 mμ
♀ 75%



1 2 3 4 5 6 7 8 9 10

Plate counts.

B Lac⁺ sm : growth entirely negative.

D(0) : all plates including C and D have approximately the same number of recombinants : about 1000 - All plate recombination -

minst B₁

C 10

D ~800

10' 12

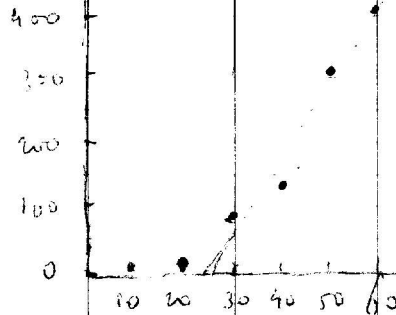
20' 19

30' 86

40' 138

50' 320

60' 410



Pulse useless with Afr₁ ?

May be due to use of Penassay for pulsins.

However there is a high recombination rate in D

Time pattern likely to be off indicative of zygote recruitment rather than of anything else.

1
2
3
4
5
6
7
8
9
0
1
2
3
4
5
6
7
8
9
0
1
2
3
4
5
6
7
8
9
0



	1	2	3	4	5	6	7	8	9	10
1	W 3936	(1895 H _{pr} , A ₂ ^R)								
2					1 ml + 7.5 ml Pen				1 ^h rotation	
3	W 3064						"	"		
4										
5										
6										
7	Spun, resuspended in fresh Penaway at double conc.									
8	<u>Mixture</u> : 1 ml ♂ + 9 ml ♀ in waterbath									
9										
0										
1	Sample: .5 every 10' diluted in double DW, 4.5 ml.									
2	and then further dilutions and platings on the									
3	following media: (.05) -									
4	3) D-0 B ₁ threonine leucine methionine fm									
5	4) " B ₁ methionine fm									
6	5) " methionine fm									
7	6) Mlac - threonine leucine B ₁ meth. Proline, fm.									

	Dilution	0'	10'	20'	30'	40'	50'	60'
1	A 1/10	4,5	3,6,4,5	4,5	5	5		
2	B 1/100	3,6,4,5	4,5	3,6,4,5	3,6,4,5	4,5	5	
3	C 1/1000	3,6,4,5	3,6,4,5	3,6	3,6,4	3,6,4	3,6,4,5	4,5
4	D 1/10000	3,6	(3,6)			3,6	3,6,4	3,6
5			↑ by mistake					

40' is actually 43'

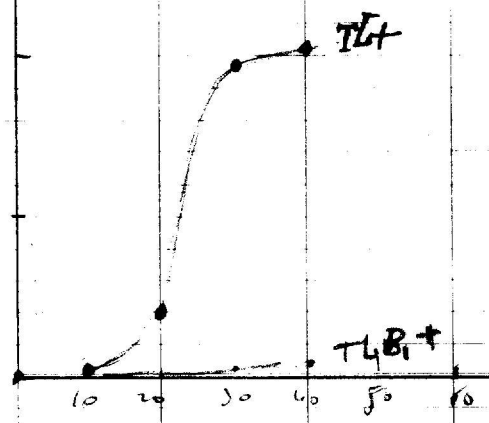
19 5/23

REF: 1417/2

	1	2	3	4	5	6	7	8	9	10
		Medium		4 (has growth)		5 (growth only after 4h)				
			D(MTLB, sm)	D(MB, sm)	D(M sm)	M Lac (TLB, MP sm)				
	Time	Dilution	[TL+]	[TL+]	TLB, +					
0'	A			0	0					
	B		∞	0	0	20, 10m +, plus background				
	C		N 6000	0	0	N 2000 mostly +				
	D		N 700							
10'	A		∞	34	0	24 +, many neg papillae, plus background				
	B			2	1					
	C		∞	0	0	N 3000 mostly -				
	D		N 3000			227 mostly +				
20'	A			394	2	N 100 mostly + background				
	B		∞	34	0	N 2000 mostly +				
	C		∞							
30'	A				3					
	B			198	0	25 + background				
	C		∞	20		N 2000, found +				
40'	A				7					
	B			201	0					
	C		∞	8		N 120 + and -				
	D		1500			600 all +				
50'	B				0					
	C		∞	7	0	N 5000, 10m +				
	D		2500	7	0	N 600				
60'	C				0					
	D		2000	24	0	200				
						N 200 mostly +				

Note on medium 5.
On most plates, there is a gradient
into Lac+ & Lac- . Due to fault?

the low transfer of λ + due to function with the
and existence of λ -



26 June 1958.

REF:

Timing of Xyl, Mtl among T2's⁺ recombinants. (also among lac⁺ S⁺?)

Albers reported a zero incidence of Thal⁺ etc. in both crosses. These might be very late members, and as such might be most influenced by the inhibition of replication.

Try timing and effect of 200 µl chloramphenicol on the Xyl rates, etc.

W2150: W3064 chilled; .1 : .1 : 5 ml. ~~plate~~ 1:100 and plate .05 ml D sm B₁.
20 x ORC

at times indicated. t = 00, 0, 15, 16, 22, 30, 40, 50, 60, 90, 90C [chloramphenicol from beginning].

Counts (oc. 2 days; at room temp to 29 June).

P29.

t mins	SRP-D sm B ₁	B ⁺ ^{total} _{sum} B ₁	M	Lac	Gal	Mal	Xyl
00	~104			50%?	0	0?	13?
0	1						
16	32			33%	0	1?	0
22	65			66%	0	0	2
30	351						
40	~580			50%	0	0	0
60	10 ³ 10³	0	0	66%	0	0	3
90	10 ³	0	0	66%	0	1	8
60C	10 ³		0	66%	0	1	2
90C	10 ³ -		0	50%	0	0	0

note variability of early counts
indicates T2's

July 1. - To refrigerator to await scoring for late members.

90C < 90 but too many to count. repeat, and 1/10 dilns. That is Xyl ratios etc.

19 May 19, 1958.

REF: 1418

TRANSFORMATION

Inserting DNA by making holes with F+ ^{or Hfr} and partial osmotic shock of recipient protoplasted ♀.

DNA: source W 3064, protoplasts, concentrated to 10^9 /ml and shocked in DW. Kept at -20° until used; thawed, 4 vols. of alcohol added, filaments removed by glass rod to .5% saline. Partial redissolution, cell walls not entirely eliminated. Bleeding to resuspend.

Recipient: W 1827 (= W6 F-) - Exponentially spun, concentrated for 10 tubes into 5 ml ($= 20 \times$) \rightarrow protoplasted $2\frac{1}{2}$ hrs

Hole makers: W6 expon conc. $1.5 \times$ (to 0.7)
W 1895. expon. " (to 0.7) -

- (A) W6 + W 1827 ϕ : 0.5 + 0.4. 3' waterbath, then add, under blending, 2 ml of DNA prep. - incubate 65', then plate .05 on B Gal Sm, S^H Mal (for lack of X%)
- (B) same with W 1895, but 10' waterbath
- (C) same with 0.5 lambda prep., 5' waterbath
- (D) Control of 3064 : .05 on B Gal Sm, S^H Mal



19 May 24th 1958.

REF: 1419

	1	2	3	4	5	6	7	8	9	10
1	DNP resistance.									
2										
3										
4	Broth cultures drops W 3060, W 3064 spread on flusday									
5	per vial									
6	W 3060 W 3064									
7										
8	DNP M/20 1 ml - -									
9										
0	" " .2 ml growth growth + ~50 papillae									
1	" " .04 ml growth growth									
2										
3										
4	W 3064 papillae, isolated on B lac and on									
5	DNP M/20 1ml plate - No growth on the latter. Streaks on B lac replated									
6	on .5, .4, .3 ml of DNP. growth of almost all. Plants made.									
7										
8										
9										
0	<u>May 26th</u>									
1										
2	.2 .38 .4 .5 .7 ml of M/20 DNP per									
3	plate and spread (broth drop of W 3060, W 3064) again									
4										
5										
6										
7	.2 .3 .4 .5 .7 ml of DNP									
8										
9	48 hrs	3060	growth	scanty growth	~40	5 colonies	no growth			
0		3064	growth and darkening of medium, no papillae	irregular growth.	juvenile colonies	1 colony	"			
1										
2										
3										
4										
5	After the more days of growth at room temperature, there are about									
6	100 resistant colonies in W 3060 on .4 and 21 in .5; 1 colony in									
7	W 3064 on .4 and 3 colonies on .5.									
8										
9										
0	Colonies from W 3060 on .5 streaked on B(lac) for further testing.									
1										
2										
3										
4										
5										
6										
7										
8										
9										
0										

