

Test on F₂ Mothers and Their Progeny

APR 3 1951

17-D YELLOW FEVER VIRUS IN PROGENY of
F₂ ♀ x ♂

VIRUS - 17-D Yellow fever virus of 1/18/51 - 10⁴ in NRS-B-11-4
0.03 cc - 10⁻² in 1090 RSS Ice.

MICE - Mothers and F₂ ♀ x ♂ Progeny as described below
W-Swiss Controls - 3-4 wk old.

		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Litter of 3-31/51	Mother ♀	-	-	-	-	-	W	PP	D																				
	1 ♀	-	-	-	-	-	-	PP	D																				
F ₂ ♀ x ♂	2 ♀	-	-	-	-	-	-	CNS	P _n	P _n	D																		
	3 ♂	-	-	-	-	-	-	CNS	P _n	P _n	D																		

		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Litter of 10-3/5	Mother ♀	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1 ♀	-	-	-	-	-	-	P _n	D																				
F ₂ ♀ x ♂	2 ♂	-	-	-	-	-	-	P _n	D																				
	3 ♂	-	-	-	-	-	-	Run	Sick	D																			
	4 ♂	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Litter of 9-3/8	Mother ♀	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	1 ♀	-	-	-	-	-	-	W	PP	P _n	D																		
F ₂ ♀ x ♂	2 ♀	-	-	-	-	-	-	W	CNS	D																			
	3 ♀	-	-	-	-	-	-	Run	Run	Run	Run	Run	Run	Run	Run	Run	Run	Run	Run	Run	Run	Run	Run	Run	Run	Run	Run	Run	
	4 ♀	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	5 ♂	-	-	-	-	-	-	W	CNS	P _n	D																		
	6 ♂	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

10⁻²

		1	2	3	4	5	6	7	8	9
1	-	-	-	-	-	PP	D			
2	-	-	-	-	-	PP	D			
3	-	-	-	-	-	PP	D			
4	-	-	-	-	-	PP	D			
5	-	-	-	-	-	W	PP	D		
6	-	-	-	-	-	PP	D			
7	-	-	-	-	-	PP	P _n	D		
8	-	-	-	-	-	PP	P _n	D		
9	-	-	-	-	-	CNS	P _n	D		
10	-	-	-	-	-	CNS	P _n	D		

Titrate virus if he dies without
paralysis
10⁻³, 10⁻⁴, 10⁻⁵, 10⁻⁶

APR 13 1951
APR 13 1951

VIRUS - 1090 brain + cord suspension of m #1 (♀ x ♂)
is isolated = 17-D yellow fever 4/3/51.
dilutions in 1090 R55.

[illegible]

10-4

1	-	-	-	-	-	-	PPPD
2	-	-	-	-	-	-	? PPP
3	-	-	-	-	-	-	WPP
4	-	-	-	-	-	-	WPP
5	-	-	-	-	-	-	? PPP

	1	-	-	-	-	-	-	cm) D		
	2	-	-	-	-	-	-	pp P _n	D	
10-5	3	-	-	-	-	-	-	w P _n	D	
	4	-	-	-	-	-	-	w pp	P _n	D
	5	-	-	-	-	-	-	w pp	P _n	D

[illegible]

APR 20 1951

17-D YELLOW FEVER VIRUS IN F₂ MOTHERS + (F₂ ♀ x S ♂) PROGENY.

VIRUS - 17-D YELLOW FEVER VIRUS of 1/12/51 - 1090 - NRS-B-11-4
0.03 cc - 10⁻² in 1090 RSS I.C.C.

MICE - F₂ MOTHERS + THEIR PROGENY (F₂ ♀ x S ♂)
W-SWISS controls - (34 whole).

		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
	MOTHER F ₂	-	-	-	-	-	-	W	P	D																			
Litter of 7-3/14/51	1 ♀	-	-	-	-	-	-	W	P	D																			
F ₂ ♀ x S ♂	2 ♀	-	-	-	-	-	-	W	P	P	P	D																	
	3 ♀	-	-	-	-	-	-	W	(H)	P	D																		

	MOTHER F ₂	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Litter of 10-3/19/51	1 ♀	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F ₂ ♀ x S ♂	2 ♀	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	3 ♀	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	4 ♂	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	5 ♂	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	6 ♂	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	7 ♂	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	8 ♂	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

	MOTHER DE-AD	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Litter of 10-3/21/51	1 ♀	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F ₂ ♀ x S ♂	2 ♀	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	3 ♀	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	4 ♂	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	5 ♂	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

	MOTHER F ₂	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Litter of 7-3/25/51	1 ♀	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F ₂ ♀ x S ♂	2 ♀	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	3 ♀	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	4 ♀	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	5 ♂	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	6 ♂	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	7 ♂	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

	MOTHER F ₂	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Litter of 8-3/25/51	1 ♀	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F ₂ ♀ x S ♂	2 ♀	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	3 ♂	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

17-D YELLOW FEVER IN F₂ MOTHERS + THEIR PROGENY (F₂ x 50)

APR 20 1951

W-SWISS CONTROLS

	1	2	3	4	5	6	7	8
1	-	-	-	-	W	D		
2	-	-	-	-	W	D		
3	-	-	-	-	-	D		
4	-	-	-	-	-	D		
5	-	-	-	-	-	P ₂	D	
6	-	-	-	-	-	P ₂	D	
7	-	-	-	-	-	P	D	
8	-	-	-	-	-	CMS	P ₂	D
9	-	-	-	-	-	CMS	P ₂	D
10	-	-	-	-	-	CMS	CMS	D

MAY 3 1951

MICE - F_2 MOTHER & PROGENY ($F_2 \text{♀} \times S \text{♂}$)
W-SWISS Controls - (3-4 wk old).

[illegible]

	1	2	3	4	5	6	7	8	9
1	-	-	-	-	-	pp	D		
2	-	-	-	-	-	w	pp	D	
3	-	-	-	-	-	w	pp	D	
4	-	-	-	-	-	?	w	D	
5	-	-	-	-	-	?	w	D	
6	-	-	-	-	-	cm	D		
7	-	-	-	-	-	cm	D		
8	-	-	-	-	-	cm	P ₂	D	
9	-	-	-	-	-	cm	P ₂	D	

MAY 11 1951

B-11-4

MAX ~~AND~~ - SWISS control (@ 10-12 June)

Letter of 9-4/13/51 MOTHER

Litter of 6 - 4/15/81

Letter of 7 - 4/16/5

Little of 7-4/19

 10^{-2}

1

2

3

4

5

6

7

5

9

10

$$F_1 \text{ ♀} - \begin{matrix} 5 & (R_{\text{♀}} + S_{\text{♂}}) \\ 3 & (S_{\text{♀}} + R_{\text{♂}}) \end{matrix}, 7, 4, 5 = 24$$

$$= 18$$

Use for
Test with
French Neurotop

$$F_1 \text{ ♂} - 10 \text{ ♂}$$

CH. Swiss - 8 large Swiss ♀
Max " - 9 " " ♀

Breeding of Max Swiss ♀ (aa) + Resistant Backcross ♂ (Aa)

Expected result = Aa + aa = 50% susceptible

<u>Date of litter</u>	<u>Origin No.</u>	<u>No. on 3/22/51</u>
2-13-51	10	2
2-15-51	9	2
2-17-51	9	5
2-17-51	7	2
		} combined
2-16-51	10	10
2-18-51	10	3
2-21-51	8	3
2-21-51	6	4
2-22-51	11	6
2-23-51	8	8
3-2-51	5	5
		50

Backcross ($F_1 [S_{\text{♀}} + R_{\text{♂}}] \times S_{\text{♂}}$)

✓ 2-15-51	6	5
2-22-51	8	6

F₂ mice

$R_{\text{♀}} + S_{\text{♂}}$	2-24-51	-	6	4
	2-28-51	-	8	2
	2-24-51	-	11	3
	2-14-51	-	9	9
	2-14-51	-	7	1
	2-10-51	-	8	6
	2-9-51	-	4	3
	2-4-51	-	5	4
$S_{\text{♀}} + R_{\text{♂}}$	2-20-51	-	7	6
	2-27-51	-	7	4
	2-12-51	-	4	4

F₂ ♀ + S ♂

3/22/80

3/1/51
3/5
3/8
3/14
3/17
3/19

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3
10
9
7
11
10

3
10
9
7
11
10