

The Propagation of Yellow Fever Virus in Mouse Testicle

Am. J. Trop. Med., 1938, 18, 77-84

"Young" male Swiss mice used

Virus Strains - French strain in form of infected monkey serum.
Also Asibi, J.F. and AFB

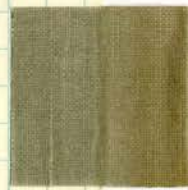
Multiplication - highest concentration of virus (about 1×10^{-5}) found on 7th day (intervals of tests before 7th day not stated).
Somewhat less on 8th and 9th days,
and "very low" at end of 3rd week.

Virus Consistently found at 21 days (although small amounts) and on one occasion at 26 days.

Note - mice remained well; also little or no pathologic change in testicles.
Speaks of "technical difficulties" responsible for occasional misses and loss on passage.

Multip.
in
Testicles
17-D
+ French

40 -
30 -
20 -
10 -
0 -



Multiplication of 17-D Yellow Fever Virus in Testicles
of Adult Mice of PRI and Swiss Strains

Purpose - to determine whether the multiplication regulating factor which is present in the brains of PRI mice occurs also in the testis.

Virus Used - Lot of 1-18-51 - 10% mouse brain suspension in undil. rabbit serum. - See simultaneous intracerebral titration

Procedure - 0.03cc of 1% (i.e. 10^2 dilution) virus inoculated into each testis of both groups of mice.

3 days, 6 days, 9 days and 12 days after inoculation, 2 mice will be sacrificed from each group, both testes removed, ground in undiluted, heated rabbit serum and immediately titered for virus content from 10^{-1} to 10^{-7} - 5 mice per dilution.

PRI Mice - 0.03 cc of 10^{-2} virus into each testis

[illegible]

Swiss Mice - 0.03 cc of 10^{-2} virus into each testis

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Testicle removed + weighed (0.2 grams) + found $10^{4.0}$ -
 MRS. Titred in Swiss mice. Pattern frozen. BAP.000

Testicle removed + titred in *mus. albinus* - BAP.000

Testicle removed + titred in *mus. alb.* - BAP.000

Testicle removed + titred in *mus. alb.* - BAP.00

MULTIPLICATION OF 17-D YELLOW FEVER VIRUS IN TESTICLES

OF ADULT PRI MICE

TITRATION 3. DAYS AFTER INOCULATION

VIRUS - Testicles of 2 PRI mice, inoculated 6/13/51 $\pm$ 0.03 cc
(10^{-2}) of 17 D Yellow fever virus into each testicle, harvested &
weighed (0.2 gms.) + ground to 1090 $\div$ NRS. 2000 SN
used in the titration. Dilutions - 1090RSS.
Portion of 1090 frozen.

MICE - 8-10 gms Maffield albinos.

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
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10^{-3}	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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JUN 16 1951

[illegible]

JUN 16 1951

VIRUS - Testicles of 2 Swiss mice, inoculated 6/13/51 $\pm$
0.03 cc of 10^{-2} 17-D Yellow fever virus into each testis,
harvested + weighed (0.2 gms) & found to $10^{9.0} \pm$ M.F.S.
2000 JN used in this titration. Dilution = $10^{9.855}$.
Portion of $10^{9.0}$ frozen.

[illegible]

10^{-2}	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	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
	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	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
	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	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
	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	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
	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	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
	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	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85</															

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JUN 16 1951

[illegible]

MULTIPLICATION OF 17-D YELLOW FEVER VIRUS IN TESTICLES OF ADULT PRI MICE

JUN 19 1951

TITRATION 6 DAYS AFTER INOCULATION

VIRUS - 5 testicles of 2 PRI mice, inoculated 6/13/51 $\pm$ 0.03cc
(10^{-2}) of 17-D yellow fever virus into each testicle, harvested
& weighed (0.5 grams) & ground to 10% in NRS. 2000 SN
used in this titration. Dilutions in 10% R55.
Portion of 10% frozen.

MICE - 8-10 gram max field albino

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	4	-	-	-	-	-	-	W D													
	5	-	-	-	-	-	-	W D	-	-	-	-	-	-	-	-	-	-	-	-	-

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	4	-	-	-	-	-	-	? W P D													
	5	-	-	-	-	-	-	W P D													

10^{-3}	1	-	-	-	-	-	-	D													
	2	-	-	-	-	-	-	D													
	3	-	-	-	-	-	-	P P D													
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10^{-4}	1	-	-	-	-	-	-	-	P P P D												
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3.2

MULTIPLICATION OF 17-D YELLOW FEVER VIRUS
IN TESTICLES OF ADULT W-SWISS MICE

JUN 19 1951

TITRATION 6 DAYS AFTER INOCULATION

VIRUS - Testicles of 2 Swiss mice, inoculated 6/13/51 @ 0.03 cc
(10^{-2}) of 17-D Yellow fever virus into each testicle, homogenized
& weighed (0.5 gram) & ground to 1090 in NRS. 2000 SN
used in this titration. Dilution = 1090 R55.
Portion of 1090 frozen.

MICE - 8 - 10 gram maffield albinos

		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
10^{-1}	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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10^{-4}	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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10^{-5}	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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10^{-7}	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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MISSING

MULTIPLICATION OF 17-D YELLOW FEVER VIRUS IN
TESTICLES OF ADULT PRI MICE

JUN 22 1951

TITRATION 9 DAYS AFTER INOCULATION

VIRUS - 5 testicles of 2 PRI mice, inoculated 6/13 $\pm$
0.03cc (10^{-2}) of 17-0 yellow fever virus into each testicle,
harvested & weighed (0.54gms) & ground to 1090 in NRS.
2000 SX used in this titration. Dilutions in 1090 R55.
Portion of 1090 frozen.

MICE - 8-10 gram Maxfield albino.

[illegible]

MULTIPLICATION OF 17-D YELLOW FEVER VIRUS
IN TESTICLES OF ADULT W-SWISS MICE

JUN 22 1951

TITRATION 9 DAYS AFTER INOCULATION

VIRUS - Testicles of 2 W-SWISS, inoculated 6/13 $\pm$ 0.03 cc (10^{-2}) of 17-0 Yellow fever virus into each testicle, harvested & weighed (0.5 gm.) & ground to 1090 in NRS. 2000 SN used in this titration. Dilutions in 1090 RSS. Portion of 1090 frozen.

MICE - 8-10 gram max field albino
* 7000 ft floor + hit head - 5 strummed.

[illegible][illegible][illegible][illegible][illegible][illegible][illegible]

MULTIPLICATION OF 17-D YELLOW FEVER VIRUS IN TESTICLES OF ADULT PRI MICE

JUN 25 1951

TITRATION 12 DAYS AFTER INOCULATION

VIRUS - 5 testicles of 2 PRI mice, inoculated 6/13/51 $\bar{c}$ 0.03 cc
(10^{-2}) of 17-D Yellow fever virus into each testicle, harvested
+ weighed (0.5 grams) + ground to 1090 in MRS. 2000 SM
used in this titration. Dilutions in 1090/SS
Portion of 1090 frozen.

MICE - 8-10 from mayfield albinos

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
10^{-1}	1	-	-	-	-	-	-	-	-	D											
	2	-	-	-	-	-	-	-	-	PP D											
	3	-	-	-	-	-	-	-	-	CM D											
	4	-	-	-	-	-	-	-	-	CM P ₂ D											
	5	-	-	-	-	-	-	-	-	W P ₂ D											

10^{-2}	1	-	-	-	-	-	-	-	-	P ₂ D											
	2	-	-	-	-	-	-	-	-	PP D											
	3	-	-	-	-	-	-	-	-	P P ₂ D											
	4	-	-	-	-	-	-	-	-	CM P ₂ D											
	5	-	-	-	-	-	-	-	-	CM P ₂ P ₂ D											

10^{-3}	1	-	-	-	-	-	-	-	-	PP P ₂ D											
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	4	-	-	-	-	-	-	-	-	CM P ₂ D											
	5	-	-	-	-	-	-	-	-	CM P ₂ P ₂ D											

10^{-5}	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

10^{-7}	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

4.5

JUN 25 1951

TITRATION 12 DAYS AFTER INOCULATION

VIRUS - Testes of 2 Swiss mice, inoculated 6/13/51 @ 0.03 (10⁻²) of yellow fever into each testis, harvested & weighed (0.5 grams) & ground to 1090 = NRS. 2000 SN used in this titration. Dilution in 1090 R55.
Portion of 1090 frozen.

MICE - 8-10 Jan Massillalbio

[illegible]

MULTIPLICATION OF 17-D YELLOW FEVER VIRUS IN TESTICLES OF PRI + SWISS MICE

JUN 29 1951

PURPOSE - To determine the ability of this virus to multiply in the testicles of PRI + SWISS mice.

VIRUS - 17-D Yellow fever of 1/18/51 - 1090 - NRS - 10⁻² dilution prepared in 1090 RSS for this test. - B-11-4

METHODS - 0.03cc of 10⁻² inoculated into each testis of the mice in the PRI + SWISS groups.

6 days after inoculation the testicles will be removed from the 6 mice in each group 1 ground in NRS + titrated for virus content from 10⁻¹ - 10⁻⁷.

MICE - @ 6 wk old PRI ♂
@ 6 wk old W-Swiss ♂

17-D Yellow Fever PRI MICE - 0.03cc 10⁻² into each testis

	1	2	3	4	5	6
1	-	-	-	-	-	-
2	-	-	-	-	-	-
3	-	-	-	-	-	-
4	-	-	-	-	-	-
5	-	-	-	-	-	-
6	-	-	-	-	-	-

Testicle harvested 7/5/51. weighed (1.2 gm)
Ground to 2090 - NRS
Titrated in maxfield mice for virus content

W- SWISS MICE - 0.03cc 10⁻² into each testis

	1	2	3	4	5	6
1	-	-	-	-	-	-
2	-	-	-	-	-	-
3	-	-	-	-	-	-
4	-	-	-	-	-	-
5	-	-	-	-	-	-
6	-	-	-	-	-	-

Testicle harvested 7/5/51. weighed 1.04 gm
Ground to 2090 - NRS.
Titrated in maxfield mice 10⁻¹ - 10⁻⁷

TITRATION OF 17-D YELLOW FEVER FROM TESTICLES OF PRI MICE 6 days

JUL 5 1951

VIRUS - Testicles of 6 PRI mice, inoculated ≈ 0.03 cc of (10^{-2}) 17-D Yellow fever into each testis 6/29/51, removed 7/5/51 (6 days after inoculation) + weighed (1.2 grams) + ground to 2090 in NRS. - BAP-000
Dilution - 1090 R55 of 2000 SN for this test. - Portin page.

MICE - 8-10 gram maffield albinos

17-D Yellow fever from PRI testicles

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
10^{-1}	1	-	-	-	-	-	W	P _n	D												
	2	-	-	-	-	-	?	P _n	D												
	3	-	-	-	-	-	?	PP	P _n	D											
	4	-	-	-	-	-	(N)	(N)	D												
	5	-	-	-	-	-	(N)	(N)	P _n	D											
10^{-2}	1	(D)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	2	-	-	-	-	-	-	-	D												
	3	-	-	-	-	-	-	(N)	D												
	4	-	-	-	-	-	-	(N)	PP	D											
	5	-	-	-	-	-	-	(N)	(N)	D											
10^{-3}	1	-	-	-	-	(D)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	2	-	-	-	-	-	-	-	PP	P _n	D										
	3	-	-	-	-	-	-	-	PP	P _n	D										
	4	-	-	-	-	-	-	-	PP	D											
	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10^{-4}	1	-	-	-	-	-	-	-	W	PP	D										
	2	-	-	-	-	-	-	-	-	-	PP	D									
	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10^{-5}	1	(D)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	2	-	-	(D)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10^{-6}	1	-	-	-	-	(D)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

3.8

OVER

17-D from PRI Tectate

JUL 5 1951

 10^{-7} [illegible]

TITRATION OF 17-D YELLOW FEVER FROM TESTICLES OF W-SWISS MICE 6 days.

JUL 5 1951

VIRUS - Testicles of 6 W-SWISS mice, inoculated $\approx 0.03cc (10^{-2})$
of 17-D Yellow fever into each testicle 6/29/51, removed
7/5/51 (6 days after inoculation) & weighed (1.0 gram) &
ground to 2090 - NRS. - BAP.D.D.
Dilution - 1090 NRS of 2000 SN for the test. Post page

MICE - 8-10 gram mayfield albino

17-D YELLOW FEVER FROM W-SWISS TESTICLES

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
10^{-1}	1	-	-	-	-	-	PP D														
	2	-	-	-	-	-	(CN) PP D														
	3	-	-	-	-	-	(CN) (CN) D														
	4	-	-	-	-	-	? (CN) P _n D														
	5	-	-	-	-	-	(CN) PP P _n D														
10^{-2}	1	-	-	-	-	-	D														
	2	-	-	-	-	-	(CN) PP D														
	3	-	-	-	-	-	(CN) (CN) D														
	4	-	-	-	-	-	(CN) (CN) PP D														
	5	-	-	-	-	-	(CN) (CN) PP D														
10^{-3}	1	-	-	-	-	-	PP D														
	2	-	-	-	-	-	(CN) PP D														
	3	-	-	-	-	-	? (CN) P _n D														
	4	-	-	-	-	-	? (CN) P _n D														
	5	-	-	-	-	-	(CN) PP D														
10^{-4}	1	-	-	-	-	-	P _n D														
	2	-	-	-	-	-	? (CN) P _n D														
	3	-	-	-	-	-	(CN) P _n D														
	4	-	-	-	-	-	? P _n D														
	5	-	-	-	-	-	PP P _n D														
10^{-5}	1	-	-	-	-	-	D														
	2	-	-	-	-	-	W PP D														
	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
10^{-6}	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

4.8

MULTIPLICATION OF 17-D YELLOW FEVER VIRUS
IN TESTICLES OF PRI & SWISS MICE
9 days after inoculation

JUL 24 1951

PURPOSE - To determine level of virus 9 days after inoculation into testicles of PRI & Swiss mice.

VIRUS - 17-D Yellow fever of 1/18/51 - 1090 in NRS. - B-11-4
10⁻² dilution prepared in 1090 R55 for this test

PROCEDURE - 0.03 cc of 10⁻² inoculated into each testis of the mice in the PRI & Swiss groups.

9 days after inoculation the testicles will be removed from the 6 mice in each group, ground to 1090 in NRS & titrated for virus content from 10⁻¹ - 10⁻⁷.

MICE - @ 6 wk old PRI ♂
@ 6 wk old W-Swiss ♂

17-D YELLOW FEVER PRI MICE - 0.03 cc 10⁻² into each testis

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

} Hatched 8/2/51 - ground as 1090 &
titrated in W-SWISS
BAP 000

W-SWISS MICE - 0.03 cc 10⁻² into each testis

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

} Hatched 8/2/51 - ground as 1090 &
titrated in W-SWISS
BAP 000

Titration of 17-D Yellow Fever Virus
from 9 day PRI testicles

AUG 2 1951

PURPOSE - to determine the level of multiplication of 17-D yellow fever in PRI mouse testicles 9 day after inoculation.

VIRUS - testicles of 6 PRI mice, inoculated 7/24/51 w/ 17-D yellow fever (11/18/51) - 0.03 cc 10^{-4} into each testicle, harvested & weighed (1.3 gms). Testicles ground to 1090 in NRS & 2000 SN titrated.

MICE - 3-4 wk old W-Swiss.

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
10^{-1}	1	-	-	-	-	-	? D														
	2	-	-	-	-	-	? D														
	3	-	-	-	-	-	? CNS D														
	4	-	-	-	-	-	- CNS D														
	5	-	-	-	-	-	- CNSpp D														
10^{-2}	1	-	-	-	-	-	- PP D														
	2	-	-	-	-	-	- PP D														
	3	-	-	-	-	-	- PP D														
	4	-	-	-	-	-	- ? PP D														
	5	-	-	-	-	-	- PP PP D														
10^{-3}	1	-	-	-	-	-	- D														
	2	-	-	-	-	-	- CNS D														
	3	-	-	-	-	-	- PP D														
	4	-	-	-	-	-	- PP PP D														
	5	-	-	-	-	-	- PP PP D														
10^{-4}	1	-	-	-	-	-	- PP D														
	2	-	-	-	-	-	- (W) PP D														
	3	-	-	-	-	-	- W PP PP D														
	4	-	-	-	-	-	-														
	5	-	-	-	-	-	-														
10^{-5}	1	-	-	-	-	-	-														
	2	-	-	-	-	-	-														
	3	-	-	-	-	-	-														
	4	-	-	-	-	-	-														
	5	-	-	-	-	-	-														
10^{-6}	1	-	-	-	-	-	-														
	2	-	-	-	-	-	-														
	3	-	-	-	-	-	-														
	4	-	-	-	-	-	-														
	5	-	-	-	-	-	-														

4.2

Situation of 17-D Yellow Fever Virus
from 9 day W-Swiss Testicles

AUG 2 1951

PURPOSE - To determine the level of multiplication of 17-D Yellow fever in W-Swiss mouse testicles 9 days after inoculation.

VIRUS - Testicles of 6 W-Swiss mice, inoculated 7/24/51 to 17-D Yellow fever (1/18/51) - 0.03cc of 10^{-2} into each testicle, harvested & weighed (1.6 grams), testicles ground to 1090 in NRS & 2000 SN titrated.

MICE - 3-4 week old W-Swiss

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
10^{-1}	-	-	-	-	-	W Pr D															
	-	-	-	-	-	W Pr D															
	-	-	-	-	-	W Pr D															
	-	-	-	-	-	W Pr D															
	-	-	-	-	-	W Pr D															
10^{-2}	-	-	-	-	-	W D															
	-	-	-	-	-	W D															
	-	-	-	-	-	W D															
	-	-	-	-	-	W D															
	-	-	-	-	-	W D															
10^{-3}	-	-	-	-	-	W D															
	-	-	-	-	-	W D															
	-	-	-	-	-	W D															
	-	-	-	-	-	W D															
	-	-	-	-	-	W D															
10^{-4}	-	-	-	-	-	W Pr D															
	-	-	-	-	-	W Pr D															
	-	-	-	-	-	W Pr D															
	-	-	-	-	-	W Pr D															
	-	-	-	-	-	W Pr D															
10^{-5}	-	-	-	-	-	W Pr D															
	-	-	-	-	-	W Pr D															
	-	-	-	-	-	W Pr D															
	-	-	-	-	-	W Pr D															
	-	-	-	-	-	W Pr D															
10^{-6}	-	-	-	-	-	W Pr D															
	-	-	-	-	-	W Pr D															
	-	-	-	-	-	W Pr D															
	-	-	-	-	-	W Pr D															
	-	-	-	-	-	W Pr D															

5.5

MULTIPLICATION OF FRENCH NEUROTROPIC YELLOW FEVER

JUN 29 1951

IN TESTICLES OF PRI & SWISS MICE

PURPOSE - To determine the ability of this virus to multiply in the testicles of PRI & SWISS mice.

VIRUS - French neurotropic yellow fever virus 5/4/51 - 20% in NRS. Diluted 10^{-2} - 10^{-9} in NRS for the test. - B-1-1 Pass 253

METHOD - 0.03cc of 10^{-2} inoculated into each testis of the mice in the PRI & SWISS groups.

6 days after inoculation the testicles will be removed from the 6 mice in each group, ground in NRS & titrated for virus contents from 10^{-1} - 10^{-7} .

MICE - @ 6 wk old PRI ♂
@ 6 wk old W-SWISS ♂

FRENCH NEUROTROPIC PRI MICE - 0.03cc 10^{-2} into each testis

1 2 3 4 5 6

1	-	-	-	-	-
2	-	-	-	-	-
3	-	-	-	-	-
4	-	-	-	-	-
5	-	-	-	-	-
6	-	-	-	-	-

Testicles removed 7/5/51. Weighed 1.2 gm
Ground to 20% in NRS.
Titrated in max. mice

W-SWISS MICE - 0.03cc 10^{-2} into each testis

1 2 3 4 5 6

1	-	-	-	-	-
2	-	-	-	-	-
3	-	-	-	-	-
4	-	-	-	-	-
5	-	-	-	-	-
6	-	-	-	-	-

Testicles removed 7/5/51. Weighed 1.2 gm
Ground to 20% in NRS.
Titrated in max. mice.

TITRATION OF FRENCH NEUROTROPIC YELLOW FEVER FROM TESTICLES OF PRI MICE

JUL 5 1951

VIRUS - Testicle of 6 PRI mice, inoculated $\approx 0.03cc$ of 10^{-2} French neurotropic yellow fever 6/29/51, removed + weighed (1.29gms) + ground to 2090 in NRS. - Diluted in 1090 R51. Portion of 20000 NRS. BAP-00

MICE - 8-10 gm massfield albino

6 days

FRENCH NEUROTROPIC YELLOW FEVER FROM PRI TESTICLES

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
10^{-1}	1	-	-	-	CM D																
	2	-	-	-	CM D																
	3	-	-	-	CM D																
	4	-	-	-	? P ₂ D																
	5	-	-	-	CM D																
10^{-2}	1	-	-	-	D																
	2	-	-	-	D																
	3	-	-	-	D																
	4	-	-	-	D																
	5	-	-	-	D																
10^{-3}	1	-	-	-	D																
	2	-	-	-	CM D																
	3	-	-	-	CM D																
	4	-	-	-	CM D																
	5	-	-	-	CM D																
10^{-4}	1	-	-	-	D																
	2	-	-	-	D																
	3	-	-	-	CM D																
	4	-	-	-	CM D																
	5	-	-	-	CM D																
10^{-5}	1	-	-	-	CM D																
	2	-	-	-	? D																
	3	-	-	-	D																
	4	-	-	-	P ₂ D																
	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10^{-6}	1	-	-	-	? -	-	-	D													
	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10^{-7}	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

5.5

TITRATION OF FRENCH NEUROTROPIC YELLOW FEVER FROM TESTICLES OF W-SWISS MICE

JUL 5 1951

VIRUS - Testicles of 6 W-Swiss mice, inoculated $\approx 0.03 \text{ cc}$ of 10^{-2} French neurotropic yellow fever virus 6/29/51, removed + weighed (1.2 gms) + ground in 2090 in NRS. 2000 SN used, Path. frige. PAP-00

MICE - 8-10 gm in off field alpine.

6 days

FRENCH NEUROTROPIC YELLOW FEVER FROM W-SWISS TESTICLES

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
10^{-1}	1	-	-	(N)	D																
	2	-	-	(N)	D																
	3	-	-	?	D																
	4	-	-	-	(N)	D															
	5	-	-	-	(N)	D															
10^{-2}	1	-	-	-	D																
	2	-	-	-	D																
	3	-	-	-	D																
	4	-	-	-	D																
	5	-	-	-	D																
10^{-3}	1	-	-	-	D																
	2	-	-	-	D																
	3	-	-	-	D																
	4	-	-	-	(N)	D															
	5	-	-	-	(N)	D															
10^{-4}	1	-	-	-	D																
	2	-	-	-	D																
	3	-	-	-	D																
	4	-	-	-	(N)	D															
	5	-	-	-	?	D															
10^{-5}	1	-	-	-	?	D															
	2	-	-	-	-	D															
	3	-	-	-	-	(N)	D														
	4	-	-	-	-	(N)	D														
	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10^{-6}	1	-	-	-	-	(N)	D														
	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10^{-7}	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

5.5

Repeat Test on Multiplication of French Neurotropic Yellow Fever Virus in ~~RRI~~ Testicles of PRI and Swiss Mice

Purpose: In the preceding test, the titer of the virus 6 days after inoculation was $10^{-5.5}$ in both PRI + Swiss Mice. Determine whether there actually is no difference in the intratesticular multiplication of this virus in both types of mice.

Virus Used: Passage 253, Preparation of 5/4/51 (B-1-1) same as used in previous tests.

Inoculum - 0.03 cc of 10^{-2} in each testis

Mice - Approximately 8 week old PRI and Webster Swiss bred here.

Procedure - Sacrifice 6 mice of each group 6 + 9 days after inoculation. ^{remove both testicles from each} ^{pool + titrate in Swiss mice}

Intratesticular Mice

RRI

	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
1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

6 mice killed on Dec. 3 (6th day after inoc.). Testicles removed, ground with NRS to a 20% suspension. Titration in mice. See sheet

6 mice killed on Dec 6 (9th day after inoc.). Testicles removed, ground with N.R.S. to a 20% susp. Titration in mice, see sheet.

Swiss

1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

6 mice killed on Dec. 3 (6th day after inoc.). Testicles removed, ground with N.R.S. to a 20% suspension. Titration in mice, see sheet.

6 mice killed on Dec 6 (9th day after inoc.) Testicles removed, ground with NRS to a 20% susp. Titration in mice, see sheet.

(over)

Intracerebral Controls - Also Passage 254
Swiss Male Mice - 8 weeks old - 0.03cc i.cer.

1 2 3 4 5 6 7 8
1 - - - D
2 - - - CNS
3 - - - "
4 - - - "
5 - - - ?
6 - - - ?
7 - - - ?
8 - - - ?
9 - - - ?
10 - - - ?
11 - - - ?
12
13
14

Dec. 1, 1951 - 9 brains removed. Ground in 18cc of undiluted rabbit serum. Centrifuged

BAP 1 - 08 colonies
" 2 - 09 "

Distributed in 2 1cc amp's in amps
& frozen in B-1-1

12/4 - a sm. amt of virus from 1 ampule
was placed on 2 B.A.P.

B.A.P. 1 - 03 colonies
B.A.P. 2 - 04 colonies

A colony from BAP 1 of the first set
of plates was placed in or on the following in
an effort to identify it.

Brilliant green agar plate - no growth
E.M.B. - growth with metallic sheen
LACTOSE - acid produced but no gas.
T.S.I. - acid

Gram stain - gram - short rods.

From these results it is likely we deal with a member
of the paracolon group.

[Continued of Nov. 27]

Dec. 3, 1951.

Dec 3: 6 PR I mice and 6 Swiss mice, infected intratesticularly on Nov. 27 with the French neurotropic yellow fever virus, killed today, on 6th day after inoculation. Testicles removed. Weight of each group of 6 x 2 testicles = 1.8 gram. Ground in a mortar with aluminum and Normal Rabbit Serum to a 20% suspension. Centrifuged 10 min. 1500 r.p.m. B.A.P: from PR I testicles sterile, from Swiss testicles, a few gold negative nodes of virus (pipets changed for each dilution).
 Made 10 fold dilutions with 10% NR3-Saline 10^{-1} - 10^{-7} (pipets changed for each dilution).
 Remainder stored in B1-3.

With each dilution are infected, intracerebrally groups of 5 14 day old white mice, 8-10 grams, 0.03 cc per each mouse. During inoculation the virus dilutions are kept in ice water.

Virus testicle suspension from PR I mice (killed on 6th day after inoc.). ^{+ dilution in} _{Howfield mice}

December day	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
10^{-1}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10^{-2}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10^{-3}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10^{-4}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10^{-5}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10^{-6}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10^{-7}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

CNS D

CNS D

D

CNS D

S D

CNS D

S D

S D

S R D

S (CNS) D

S D

S D

S D

S (CNS) D

?

-

-

-

-

-

-

-

-

-

-

-

-

-

-

-

-

-

-

-

-

0/5

0/5

0/5

later $10^{-3.5}$ $10^{-3.5}$

Virus lethal suspension from Swiss mice (killed on 6th day after inv.). ^{Infection in} Manfield mice.

Rec. 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
day 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21

10⁻¹ - - - D
- - - CNS D
- - - CNS D
- - - CNS D
- - - ? D

5/5

10⁻² - - - D
- - - CNS D
- - - ? CNS D
- - - S D
- - - S D

5/5

10⁻³ - - - D
- - - D
- - - CNS D
- - - CNS D
- - - S D

5/5

10⁻⁴ - - - S D
- - - CNS D
- - - CNS D
- - - S D

4/5

10⁻⁵ - - - D
- - - D
- - - CNS D

~~4/5~~ 3/4

10⁻⁶ - - - S D non-specific! why
- - - 0/4

1/5

10⁻⁷ - - - 0/5

0/5

x) probopansani

Inter = 10^{-5.2}

5 0 0
4 1 8 1
10⁻⁵ 3 1 4 2
10⁻⁶ 1 4 1 6
0 5 0

4/6 = 66.7%
1/7 = 14.3%
52.4

10^{-5.3}

16.7
52.4

Continued of Nov. 27 and Dec. 3. Dec. 6 1951.
The same test as done on Dec 3 but now the PRI and twin mice, infected intratesticularly, are killed 9 days after infection.
Reminders of the 20% susp. struck in B 1-3. B.A.P: 00

B.A.P : 80

Virus tested susp. from PRI mice (killed on 9th day after i.m.) titration in manifest mice.

Wkt = $10^{-4.3}$

Virus tested susp. from Swiss mice (killed on 3rd day after virus.).

Dec.	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
	?	-	-	-	D																
10^{-1}	-	-	-	-	CNS D																
	-	-	-	-	CNS CNS D																
	-	-	-	-	? CNS D																
	-	-	-	-	pp PR D																
	-	-	-	-	D																
10^{-2}	-	-	-	-	S CNS D																
	-	-	-	-	S ? D																
	-	-	-	-	CNS D																
	-	-	-	-	CNS CNS D																
	-	-	-	-	CNS D																
10^{-3}	-	-	-	-	D																
	-	-	-	-	CNS ^{ENS} D																
	-	-	-	-	? pp D																
	-	-	-	-	CNS D																
	-	-	-	-	D																
10^{-4}	-	-	-	-	D																
	-	-	-	-	pp D																
	-	-	-	-	pp D																
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	D																
10^{-5}	-	-	-	-	pp D																
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10^{-6}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10^{-7}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

$10^{-5.5}$
 $10^{-5.3}$
 $10^{-5.3}$

5	0	14	0	5/8	62.5
4	1	9	1	2/9	22.2
5	3	2	5		40.3
6	1	4	2		
1	4	1	7		

Summary of Virus Multiplication in Mouse Testis

Valid Tests Only - Pools of testes from 6 mice

<u>Strain of Virus</u>	<u>Days after inocul.</u>	<u>PR1</u>	<u>Swiss</u>
17-D	6	3.8	4.8 1
	9	4.2	5.5 1.3
French Neurotropic	6	3.5	5.3
	8	4.3	5.5
	6	5.5	5.5
	6		
	9		