

MAY 5 1954

Stability of Modified Mahoney Virus on Passage in
Cynomolgus Kidney Cultures - Large Bottles - Large Inocula
Intracerebral Virulence in Cynomolgus Monkeys

Preparations Tested:

Mahoney KP35 of 4-19-54 - deep freeze - 10^8 TC₅₀/ml
 " KP36 of 5-1-54 " " - $10^{7.2}$ TC₅₀/ml
 Monkeys - Shipment of 4-28-54

<u>Inoculum</u>	<u>Cynomolg. No.</u>	<u>Clinical</u>	<u>TC₅₀ (from Tissue Culture Histology)</u>	<u>Histology</u>
KP 35 1 ml. undil. 1 cer. 10^8 TC ₅₀ 2/10	✓ 6427	D16	0	
	✓ 6428	K29		
	✓ 6429	K29		
	✓ 6430	Inoculating; P7; K7	$10^{6.2}$	Pass 1/4
	✓ 6431	K29		
	✓ 6432	D7 - bloody diarrhea	0	
	✓ 6433	P17; K17	$10^{3.2}$	- Pass 0/4
	✓ 6434 ✓ 6435 ✓ 6436	K29 D13 - bloody diarrhea K29	0 0	
KP 36 1 ml undil 1 cer. loose stool $10^{7.2}$ TC ₅₀ 4/10	✓ 6437	D12	0	
	✓ 6438	→ P13; K13	$10^{4.7}$	Passage 0/4
	✓ 6439	Morib. 4D4	0 - 9	
	✓ 6440	→ left hemipl. 7; K7	$10^{4.7}$	
	✓ 6441	D7 - severe diarrhea	Contam. 9	
	✓ 6442	K29		
	✓ 6443	→ P13; K13	$10^{4.7}$	
	✓ 6444 ✓ 6445 ✓ 6446	K29 → 11; K11 K29	$10^{5.2}$	

Autopsy June 2 - regular

Any monkey paralyzed or dead before then
 - sterile autopsy + give to Dr. Nakai for test

6427-6446

Cyn. 6427

MAY 5 1954

Date	Day	Remarks
MAY 6 1954	1	✓
	2	✓
	3	✓
	4	✓
	5	✓
	6	✓
	7	✓
	8	✓
	9	✓
	10	✓
	11	✓
	12	✓
	13	✓
	14	✓
	15	✓
	16	✓
	17	✓
	18	✓
	19	✓
	20	✓
	21	Dead A.M. Sterile lumbar + cervical spread to 10% suspension in Hank's complete. Weight 0.8 gr. Given to Dr. Nakai
	22	
	23	
	24	Remainder of one in belly's
	25	
	26	
	27	
	28	
	29	
	30	
	31	
6-1	27	
JUN 2 1954	28	

signed and dated 6/2/54

Cyn. 6428

MAY 5 1954

Date	Day	Remarks
MAY 6 1954	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	✓
JUN 2 1954	27	✓
	28	✓
	29	✓ Killed cns in belly's

Cyn. 6429

MAY 5 1954

Date	Day	Remarks
MAY 6 1954	1	✓
	2	✓
	3	✓
	4	✓
	5	✓
	6	✓
	7	Nasal discharge - serous purulent
	8	✓
	9	✓
	10	✓
	11	✓
	12	✓
	13	✓
	14	✓
	15	✓
	16	✓
	17	✓
	18	✓
	19	✓
	20	✓
	21	✓
	22	✓
	23	✓
	24	✓
	25	✓
	26	✓
	27	✓
JUN 2 1954	28	✓
	29	✓ Killed, one in belly's

Cyn. 6430

MAY 5 1954

Date	Day	Remarks
MAY 6 1954	1	Turns head to left - inoculation injury
	2	Same
	3	"
	4	✓
	5	✓
	6	Appears weak; disinclined to move, but can not make out paralysis
MAY 12 1954	7	Can no longer sit up; uppers + back appear paralyzed, paralyzed
	8	
	9	MAY 12 1954 Sacrificed. Sterile midlumbar + midcervical ground into 10% suspension in Hank's complete. Weight 0.7 gm Given to Dr. Nakai
	10	
	11	
	12	
	13	Remainder of ans in belly's
	14	
	15	
	16	
	17	
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	25	
	26	
	27	
JUN 2 1954	28	injected in ans, 2:00 PM

Stored A-7-3

Cyn. 6481

MAY 5 1954

Date Day Remarks

MAY 6 1954

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 ✓
29 ✓

Killed, one in belly's

JUN 2 1954

Cyn. 6432

MAY 5 1954

Date	Day	Remarks
MAY 6 1954	1	✓ Last eight inches of tail amputated 250,000 U pen
	2	✓
	3	✓
	4	✓
	5	Sickle, only for run no paralysis
	6	Same - bloody diarrhea 10ml chloromycetin
MAY 12 1954	7	Dead A.M.
	8	
	9	MAY 12 1954 Sterile midlumbal + midcervical ground into 10% presuspension in Hank's complete. Height 1g. Given to W. Nakai. Stored A-7-3
	10	
	11	
	12	
	13	Remainder of ans in belly's
	14	
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	27	
JUN 2 1954	28	

28 - 280000 U pen, 280000 U pen

Cyn 6433

MAY 5 1954

Date	Day	Remarks
MAY 6 1954	1	✓
	2	✓
	3	✓
	4	✓
	5	✓
	6	✓
	7	✓
	8	✓
	9	✓
	10	✓
	11	✓
	12	✓
	13	✓
	14	✓
	15	✓
	16	✓
May 22	17	Partial paralysis right lower. Sacrificed. Sterile mullumbar
	18	+ medullaroid ground into 10% suspension. Weight 0.8 gr
	19	Given to Dr. Nakai.
	20	
	21	Remainder of cur in belly's
	22	
	23	
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	26	
	27	
JUN 2 1954	28	

Weight in cur, 400.7 ✓ AS

Cyn. 6434

MAY 5 1954

Date	Day	Remarks
MAY 6 1954	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	✓
JUN 2 1954	28	✓
	29	✓ Killed, ens in belly's

Cyn. 6435

MAY 5 1954

Date	Day	Remarks
MAY 6 1954	1	✓
	2	✓
	3	✓
	4	✓
	5	✓
	6	✓
	7	✓
	8	✓
	9	✓ loose stools
	10	✓
	11	✓
	12	✓ Sickly monkey - bloody diarrhea
MAY 18 1954	13	Sickly monkey - bloody diarrhea Dead AM
	14	
	15	MAY 18 1954 Sterile midlumbar + midcervical ground into 10% suspension. Weight 0.7 gr. Given to Dr. Nelson.
	16	
	17	Remainder of virus in belly's
	18	
	19	
	20	
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	25	
	26	
	27	
JUN 2 1954	28	

→ dead in water, 25/5/54 ✓ 70

Cyn. 6436

MAY 5 1954

Date	Day	Remarks
MAY 6	1954	
	2	✓
	3	✓
	4	✓
	5	✓
	6	✓
	7	✓
	8	✓
	9	✓
	10	✓
	11	✓
	12	✓
	13	✓
	14	✓
	15	✓
	16	✓
	17	✓
	18	✓
	19	✓ Loose stools - 10ml chloramphenicol
	20	✓
	21	✓
	22	✓
	23	✓
	24	✓
	25	✓
	26	✓
	27	✓
JUN 2	1954	
	28	✓
	29	✓ Killed, cur in belly's

Cyn 6437

MAY 5 1954

Date	Day	Remarks
MAY 6 1954	1	✓
	2	✓
	3	✓
	4	✓
	5	✓
	6	✓
	7	✓
	8	✓
	9	✓
	10	✓
	11	Sickly monkey
MAY 17 1954	12	Dead A.M.
	13	
	14	MAY 17 1954 Sterile midlumbon + midcervical ground into 10% suspension - Weight 1 gr. Titered on TC & stored in A-D-3 by WSK
	15	
	16	
	17	
	18	Remainder of cur in belly's
	19	
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JUN 2 1954	28	

Cyn. 6438

MAY 5 1954

Date	Day	Remarks
MAY 6 1954	1	↓
	2	✓
	3	✓
	4	✓
	5	✓
	6	✓
	7	✓
	8	✓
	9	✓
	10	✓
	11	✓
	12	✓
MAY 18 1954	13	Extensive paralysis both uppers, partial back + lowers
	14	
	15	MAY 18 1954 Terete midlumbar + midcervical ground into 10% suspension. Weight 0.9 gr. Given to Dr. Nakai
	16	
	17	
	18	Remainder of ens in belly's
	19	
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	27	
JUN 2 1954	28	

Cyn. 6439

MAY 5 1954

Date	Day	Remarks
MAY 6 1954	1	✓
	2	✓
	3	Scrubby monkey
	4	Monibund AM Dead 6:30 PM
	5	
	6	5/9 - 6:30 PM - Sterile midlumbar + midcervical
	7	stored in deep freeze overnight
	8	Remainder C&S in Kelly
	9	large blood clot at site of inoculation
	10	
	11	5/10/54 - 0.7 Gm → 10% susp. in Hanks C-2-1
	12	Filtered in tissue culture - 0
	13	
	14	
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	27	
JUN 2 1954	28	

Cyn. 6440

MAY 5 1954

Date	Day	Tail amputated	Remarks
MAY 6 1954	1	✓	
	2	✓	
	3	✓	
	4	✓	
	5	✓	
	6	✓	
MAY 12 1954	7		Weak, disinclined to climb! ? Left hemiplegia with special affect on left foot hand
	8		
MAY 12 1954	9		Sacrificed: Sterile midlumbar + midcervical ground into 10% suspension in Hank's complete Weight 1.2 gr. Given to Dr. Nakai. Stored A7-3
	10		
	11		
	12		
	13		Remainder of ens in belly's
	14		
	15		
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	25		
	26		
JUN 2 1954	27		
	28		

Cym. 6441

MAY 5 1954

Date	Day	Remarks
MAY 6 1954	1	✓
	2	✓
	3	✓
	4	Severe, copious bloody, mucoid diarrhea; not treated
	5	Same - 10 ml chloroquine
	6	Very sick - 10 ml chloroquine
MAY 12 1954	7	Dead A.M.
	8	
	9	MAY 12 1954 Sterile midlumbar + midcervical found into 16% suspension. Weight 1.4 gr. Sent to Dr. Nakai
	10	
	11	
	12	Remainder of ans in belly's
	13	
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	23	
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	25	
	26	
	27	
JUN 2 1954	28	

Tissue Culture -

10^{-1} - contain
 10^{-2} - "
 10^{-3} - $\frac{2}{3}$ contain; 1 OK.
 10^{-4} to 10^{-6} - OK - no virus

Ampule accidentally
 broken before repeat
 test could be made

10⁻¹ to 10⁻⁶ - OK - no virus

Cyn. 6442

MAY 5 1954

Date	Day	Remarks
MAY 6 1954	1	✓
	2	✓
	3	✓
	4	✓
	5	✓
	6	✓
	7	✓
	8	✓
	9	✓
	10	✓
	11	✓
	12	✓ Bloody diarrhea - 10 ml chloromycetin
	13	✓ Bloody diarrhea Diarrhea continued - 10 ml chloromycetin
	14	✓
	15	✓
	16	✓
	17	✓
	18	✓
	19	✓
	20	✓
	21	✓
	22	✓
	23	✓
	24	✓
	25	✓
	26	✓
	27	✓
JUN 2 1954	28	✓
	29	✓ Killed, ens in belly's

CYN 6443

MAY 5 1954

Date	Day	REMARKS
MAY 6 1954	1	✓
	2	✓
	3	✓
	4	✓
	5	✓
	6	✓
	7	✓
	8	✓
	9	✓
	10	✓
	11	✓
	12	✓
MAY 18 1954	13	Partial paralysis lowers, uppers, + back
	14	
MAY 18 1954	15	sterile midlumbar & midcervical found into 10% suspension. Weight 0.9 gr. Given to Dr. Nakai.
	16	Remainder of case in belly's
	17	
	18	
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	23	
	24	
	25	
	26	
	27	
JUN 2 1954	28	

Cyn. 6444

MAY 5 1954

Date	Day	Remarks
MAY 6	1954	
	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	✓
JUN 2	1954	
	28	✓
	29	✓ Killed, was in belly's

CXK 6445

MAY 5 1954

DATE	DAY	REMARKS
MAY 6 1954	1	✓
	2	✓
	3	✓
	4	✓
	5	✓
	6	✓
	7	✓
	8	✓
	9	✓
	10	
MAY 16 1954	11	Partial paralysis of the uppers; weakness neck muscles & head tremor
	12	
MAY 17 1954	13	Sterile midlumbar + midcervical, ground into
	14	10% suspension. Weight 1.2 gm. Titered in TC,
	15	& stored in A-4-8 bc 1000.
	16	
	17	Remainder of cns in Kelly's
	18	
	19	
	20	
	21	
	22	
	23	
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	25	
	26	
	27	
	28	

10^{5.2} TC₅₀/6m

JUN 2 1954

right hand - no more, Kelly's, etc.

Cyn. 6446

MAY 5 1954

Date	Day	Remarks
MAY 6 1954	1	✓
	2	✓
	3	✓
	4	✓
	5	✓
	6	✓
	7	✓
	8	✓
	9	✓
	10	✓
	11	✓
	12	✓
	13	✓
	14	✓
	15	✓
	16	✓
	17	✓
	18	✓
	19	✓
	20	✓ Loose stools - 10 ml chloromycetin
	21	✓ Diarrhea - " "
	22	✓
	23	✓
	24	✓
	25	✓
	26	✓
	27	✓
JUN 2 1954	28	✓
	29	✓ Killed, one in belly