

Comparative test for neutralizing antibody vs. own virus in

MAY 27, 1951

3 month and 3 year serum of patient

Virus: Gen. II of 3.5.48 (vial 2) Rh 153 Cumulative titer in 1948 $10^{-3.6}$
 Titration 10-14-48 $10^{-4} + ?$

Sera to be tested: 3 mo serum 11.24.47.
 3 yr serum

Selection of dose of virus: $10^{-2.0}$ ~~since that was in last of 10-14-48,~~
~~will be final titration of virus. $10^{-2.5}$ on basis of simultaneous titration.~~

procedure: prepare following dilutions of indicated sera in saline:

A	3 mo serum	1:4	0.4 cc undil. + 1.2 cc saline.	remainder
B		1:16	0.4 cc 1:4 + 1.2 cc "	1.2 cc
C		1:64	0.4 cc 1:16 + 1.2 cc "	1.2 cc
D		1:256	0.4 cc 1:64 + 1.2 cc " → discard 0.4 cc.	1.2 cc
E	3 yr serum	undil.	1.2 cc	1.2 cc
F		1:4	0.4 cc undil + 1.2 cc "	1.2 cc
G		1:16	0.4 cc 1:4 + 1.2 cc "	1.2 cc
H		1:64	0.4 cc 1:16 + 1.2 cc "	1.2 cc
I		1:256	0.4 cc 1:64 + 1.2 cc " → discard 0.4 cc.	1.2 cc.

7. Saline control 1.4 cc saline.

Virus 1: ⁵⁰ (in saline): ^{1.5 cc} 20% + ^{13.5 cc} saline = 15 cc Virus 1: ⁵⁰.
 Add to each tube A-I 1.2 cc virus (1: ⁵⁰) and to J 1.4 cc virus (1: ⁵⁰). Total amount 12.2 cc

Leave at room t. (85°F) for 1 hr and in refrigerator overnight.

Immediately prior to inoculation of monkeys prepare 10 fold dilutions in saline from saline control tube as follows:

$$\begin{aligned}
 &2.8 \text{ cc } 10^{-2} \\
 &10^{-3} (0.3 \text{ cc } 10^{-2} + 2.7 \text{ cc saline}) \\
 &10^{-4} (0.3 \text{ cc } 10^{-3} + 2.7 \text{ cc } ") \\
 &10^{-5} (0.3 \text{ cc } 10^{-4} + 2.7 \text{ cc } ")
 \end{aligned}$$

Inoculate 0.5 cc into the right thalamic area of each of 4 rhesus monkeys.

Finished 11:30.

May 22, 1951

Preparation	dilution	Phenomena	Result	Killed, bluish	
3 Mo Serum	1:256	1973 ✓ K			T
		1974 ✓ P9 Killed			-
		1975 ✓ K		1/4	X
		1976 ✓ K			X
	1:64	1977 ✓ K			X
		1978 ✓ 7 days 24 hr. (2)	0/2		-
		1979 ✓ K			X
		1980 ✓ T6			T
	1:16	1981 ✓ K			X
		1982 ✓ K		0/4	X
		1983 ✓ K			X
		1984 ✓ K			X
	1:4	1985 ✓ K		0/4	X
		1986 ✓ K			T
		1987 ✓ K			X
		1988 ✓ K			X
3 yr Serum	1:256	1989 ✓ K			X
		1990 ✓ K		0/4	X
		1991 ✓ K			X
		1992 ✓ K			X
	1:64	1993 ✓ K			X
		1994 ✓ K		1/4	X
		1995 ✓ K			T
		1996 ✓ K	Isolated pos -	0/4	X
	1:16	1997 ✓ K			X
		1998 ✓ K		0/4	X
		1999 ✓ K			X
		2000 ✓ K			X
	1:4	2001 ✓ K			X
		2002 ✓ K		0/4	X
		2003 ✓ K			X
		2004 ✓ K			X
Virus Control and titration	10 ⁻⁵	2005 ✓ K			X
		2006 ✓ T Dead in cage May 22 (0)	0/3		-
		2007 ✓ K			T
		2008 ✓ K			X
	10 ⁻⁴	2009 ✓ P7 Killed for virus			-
		2010 ✓ K		7	X
		2011 ✓ K		0	X
		2012 ✓ K		NP	2/4
	10 ⁻³	2013 ✓ K		0	X
		2014 ✓ P13 Killed for virus		13	-
		2015 ✓ P9 Killed for virus		9	2/4
		2016 ✓ K		0	X
	10 ⁻²	2017 ✓ K		NP	X
		2018 ✓ P9 Killed for virus		9	-
		2019 ✓ K		0	X
		2020 ✓ P7 Killed for virus		7	3/4
4.2	10 ⁻²	2021 ✓ P14 Killed for virus		14	-
		2022 ✓ P9 Killed		9	-
		2023 ✓ P7 Killed for virus		7	4/4
		2024 ✓ P10 Killed		10	-

Rh 1973

3 MONTH SERUM - 1:256

DATE	DAY	REMARKS
MAY 22, 1951	0	
	1	
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June 2,	11	
	12	
	13	Last few days very excited.
	14	Very excited.
	15	
	16	
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	25	
	26	
18	27	Killed for histology

STANDARD B & P "NOIAR"

STANDARD B & P "NOIAR"

Rh 1974

3 MONTH SERUM - 1:256

DATE	DAY	REMARKS
MAY 22, 1951	0	
	1	
	2	
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	7	
May 31,	9	Partial paralysis of lowers, rt. deltoid.
June 1	10	Extensive paralysis of upper + lowers; prostrate.
2	11	Extensive paralysis of extremities + back. Prostrate
3	12	Same.
4	13	"
5	14	"
6	15	Very prostrate.
7	16	"
8	17	"
June 9	18	Killed - no histology

Rh 1975

3 MONTH SERUM - 1:256

DATE	DAY	REMARKS
MAY 22, 1951	0	
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	26	
June 18	27	Killed for histology

SERUM DILUTION NEUTRALIZATION

Rh 1976

3 MONTH SERUM - 1:256

DATE	DAY	REMARKS
MAY 22, 1951	0	
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	24	
	25	
June 10	26	Killed for histology

SERUM DILUTION NEUTRALIZATION

Rh 1977

3 MONTH SERUM - 1:64

DATE	DAY	REMARKS
MAY 22, 1951	0	
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	24	
	25	
	26	
June 10	27	killed for histology

SERUM DILUTION NEUTRALIZATION

Rh 1978

3 MONTH SERUM - 1:64

DATE	DAY	REMARKS
MAY 22, 1951	0	
May 24,	2	severe blood diarrhea Prostate. Sulfate treatment Died in the afternoon. Discarded. The other 3 monkeys of the same cage (1977, 1979, 1980) Suffered as a preventive measure, orally with chloromycetin.

SERUM DILUTION NEUTRALIZATION

Rh 1979

3 MONTH SERUM - 1:64

DATE	DAY	REMARKS
MAY 22, 1951	0	
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	25	
JUNE 18	26	
	27	Killed for histology

STANDARD B & P "NOTER"

STANDARD B & P

Rh 1980

3 MONTH SERUM - 1:64

DATE	DAY	REMARKS
MAY 22, 1951	0	
	1	
	2	
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	4	
	5	
May 28,	6	Looked very ill this morning. Later became prostrate (moribund.)
	7	No diarrhea or paralysis. Killed. Sections CNS in zenkers.
		Autopsy: - no gross lesions.

- SERUM DILUTION NEUTRALIZATION

Rh 1981

3 MONTH SERUM - 1:16

DATE	DAY	REMARKS
May 22, 1951	0	
	1	
	2	
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June 1,	10	
	11	
	12	
	13	
	14	Very excited.
	15	
	16	
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	24	
	25	
	26	
June 18 ⁵¹	27	Killed for histology

- SERUM DILUTION NEUTRALIZATION

Rh 1982

3 MONTH SERUM - 1:16

DATE	DAY	REMARKS
MAY 22, 1951	0	Died in the afternoon. Autopsy: most bleeding in the stomach.
	1	
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	12	
	13	
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	21	
	22	
	23	Weakness of bowels?
	24	
	25	
	26	
June 10 ⁵¹	27	Killed for histology

SERUM DILUTION NEUTRALIZATION

Rh 1983

3 MONTH SERUM - 1:16

DATE	DAY	REMARKS
MAY 22, 1951	0	
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	24	
	25	
June 10	26	
	27	Killed for histology

SERUM DILUTION NEUTRALIZATION

Rh 1984

3 MONTH SERUM - 1:16

DATE	DAY	REMARKS
MAY 22, 1951	0	
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	24	
	25	
June 18	26	
	27	killed for histology

- SERUM DILUTION NEUTRALIZATION

Rh 1985

3 MO. SERUM - 1:4

DATE	DAY	REMARKS
MAY 22, 1951	0	
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	24	
	25	
June 10	26	
	27	killed for histology

- SERUM DILUTION NEUTRALIZATION

Rh 1986

3 MONTH SERUM - 1:4

DATE	DAY	REMARKS
MAY 22, 1951	0	
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	24	
	25	
June 10	26	killed for histology

SERUM DILUTION NEUTRALIZATION

Rh 1987

3 MONTH SERUM - 1:4

DATE	DAY	REMARKS
MAY 22, 1951	0	
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	25	
June 10	26	
	27	killed for his body

STANDARD B & P "NOTEAR"

"NOTEAR"

SERUM DILUTION NEUTRALIZATION

Rh 1988

3 MONTH SERUM - 1:4

DATE	DAY	REMARKS
MAY 22, 1951	0	
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	25	
June 10	26	Killed Pathology
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- SERUM DILUTION NEUTRALIZATION

Rh 1989

3y EAR SERUM - 1:256

DATE	DAY	REMARKS
MAY 22, 1951	0	
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	16	
	17	
	18	Very excited.
	19	
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	23	
	24	
	25	
June 18	26	Killed for histology
	27	

- SERUM DILUTION NEUTRALIZATION

Rh 1990

3 YEAR SERUM - 1:256

DATE	DAY	REMARKS
MAY 22, 1951	0	
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	24	
	25	
June 18	26	
	27	Killed for histology

SERUM DILUTION NEUTRALIZATION

Rh 1991

3 YEAR SERUM - 1:256

DATE	DAY	REMARKS
MAY 22, 1951	0	
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	25	
June 10	26	
	27	Killed for virus.

- SERUM DILUTION NEUTRALIZATION

Rh 1992

3 YEAR SERUM - 1:256

DATE	DAY	REMARKS
MAY 22, 1951	0	
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	24	
JUNE 18	25	
	26	
	27	killed for histology

Rh 1993

3 YEAR SERUM - 1:64

DATE	DAY	REMARKS
MAY 22, 1951	0	
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	16	
	17	
	18	Excited.
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	24	
	25	
	26	
JUNE 18,	27	Killed for histology

- SERUM DILUTION NEUTRALIZATION

Rh 1994

3 YEAR SERUM - 1:64

DATE	DAY	REMARKS
MAY 22, 1951	0	
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	24	
	25	
JUNE 18	26	
	27	Killed for histology

- SERUM DILUTION NEUTRALIZATION

Rh 1995

3 YEAR SERUM - 1:64

DATE	DAY	REMARKS
MAY 22, 1951	0	
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	23	
	24	
	25	
June 18	26	
	27	Killed for histology

SERUM DILUTION NEUTRALIZATION

Rh 1996

3 YEAR SERUM - 1/64

DATE	DAY	REMARKS
MAY 22, 1951	0	
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	23	
	24	
	25	
June 18,	26	Killed for histology

Rh 1997

3 YEAR SERUM - 1:16

DATE	DAY	REMARKS
MAY 22, 1951	0	
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	27	
	28	
JUNE 20	29	Killed for histology

- SERUM DILUTION NEUTRALIZATION

Rh 1998

3 YEAR SERUM - 1:16

DATE	DAY	REMARKS
MAY 22, 1951	0	
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	29	
JUNE 20		Killed for histology

Rh 1999

3 YEAR SERUM - 1:16

DATE	DAY	REMARKS
MAY 22, 1951	0	
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	26	
	27	
June 20	28	
	29	Killed for histology

- SERUM DILUTION NEUTRALIZATION

Rh 2000

3 YEAR SERUM - 1:16

DATE	DAY	REMARKS
MAY 22, 1951	0	
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	27	
	28	
JUNE 20	29	filled for histology

- SERUM DILUTION NEUTRALIZATION

Rh 2001

3 YEAR SERUM - 1:4

DATE	DAY	REMARKS
MAY 22, 1951	0	
	1	
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	26	
	27	
	28	
	29	
June 21	30	killed for histology

- SERUM DILUTION NEUTRALIZATION

Rh 2002

3 YEAR SERUM - 1:4

DATE	DAY	REMARKS
MAY 22, 1951	0	
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	3	
	4	
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	27	
	28	
June 1	29	
	30	Killed for histology

Rh 2003

3 YEAR SERUM - 1:4

DATE	DAY	REMARKS
MAY 22, 1951	0	
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	6	
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	10	
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	27	
	28	
	29	
June 21	30	Killed for histology

STANDARD B & P "NOTER"

STANDARD B & P "NOTER"

SERUM DILUTION NEUTRALIZATION

Rh 2004

3 YEAR SERUM - 1:4

DATE	DAY	REMARKS
MAY 22, 1951	0	
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	27	
	28	
	29	
June 21	30	killed for histology

Rh 2005

3 YEAR SERUM - UNDI.

DATE	DAY	REMARKS
MAY 22, 1951	0	
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	10	
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	26	
	27	
	28	
	29	
June 21	30	killed for histology

Rh 2006

3 YEAR SERUM - UNDI.

DATE	DAY	REMARKS
MAY 22, 1951	0 1 2 3 4 5 6 7	Died in the afternoon. Autopsy: - small bleeding in thalamus.

Rh 2007

3 YEAR SERUM — UNDI.

DATE	DAY	REMARKS
MAY 22, 1951	0	
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	28	
	29	
June 21	30	Killed for histology

SERUM DILUTION NEUTRALIZATION

Rh 2008

3 YEAR SERUM - UNDI.

DATE	DAY	REMARKS
MAY 22, 1951	0	
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	27	
	28	
	29	
June 21	30	Killed for histology

Rh 2009

CONTROL - 10^{-5.0}

DATE	DAY	REMARKS
MAY 22, 1951	0	
	1	
	2	
	3	
	4	
	5	
May 29,	6	
	7	Partial paralysis of lower; paralysis of both deltoids. Cannot climb. Killed for virus.

- SERUM DILUTION NEUTRALIZATION

Rh 2010

CONTROL - 10-5.0

DATE	DAY	REMARKS
MAY 22, 1951	0	
	1	
	2	
	3	
	4	
	5	
	6	
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	18	
	19	
	20	
	21	
	22	
	23	
	24	
	25	
	26	
	27	
June 21	28	
	29	Killed for histology

Rb 2011

CONTROL - 10^{-5.0}

DATE	DAY	REMARKS
MAY 22, 1951	0	
	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	
June 21	29	
	30	killed for histology

- SERUM DILUTION NEUTRALIZATION

Rh 2012

CONTROL - $10^{-5.8}$

DATE	DAY	REMARKS
MAY 22, 1951	0	
	1	
	2	
	3	
	4	
	5	
	6	
	7	
	8	
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	10	
	11	
	12	
	13	
	14	
	15	
	16	
	17	
	18	
	19	
	20	
	21	
	22	
	23	
	24	
	25	
	26	
	27	
	28	
	29	
JUNE 21	30	Killed for histology

- SERUM DILUTION NEUTRALIZATION

Rh 2013

CONTROL - 10^{-40}

DATE	DAY	REMARKS
MAY 22, 1951	0	
	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	
June 21	29	
	30	killed for histology

Rh 2014

CONTROL - 10^{-4.0}

DATE	DAY	REMARKS
MAY 22, 1951	0	
23	1	
24	2	
25	3	
26	4	
27	5	
28	6	
29	7	
30	8	
31	9	
June 1	10	
2	11	
3	12	
4	13	Slight but definite radialis paralysis, bilateral. Weakness of rear legs Intention tremor. Kicked far v. res. Section on skull and cervical enlargement on Zenker.

Rh 2015

CONTROL - 10-40

DATE	DAY	REMARKS
MAY 22, 1951	0	
	1	
	2	
	3	
	4	
	5	
	6	
	7	
	8	
	9	Partial paralysis of uppers - especially deltoids cannot climb
	10	Same.
	11	Partial paralysis of uppers; weakness of lowers. Marked paralysis of left upper. Cannot climb.
	12	Same.
	13	"
	14	"
	15	Weakness of lowers. Paralysis of left arm equivocal.
	16	Seems to improve
	17	
	18	
	19	
	20	
	21	
	22	
	23	
	24	
	25	
	26	
	27	
	28	
June 21	29	
	30	Killed for histology

- SERUM DILUTION NEUTRALIZATION

Rh 2016

CONTROL - 10-4.0

DATE	DAY	REMARKS
MAY 22, 1951	0	
	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	
June 21	29	
	30	killed for histology

Rh 2017

CONTRCH - 10-3.0

DATE	DAY	REMARKS
MAY 22, 1951	0	
	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	
June 21	30	killed for histology

STANDARD B & P "NOËAR"

P "NOËAR"

- SERUM DILUTION NEUTRALIZATION

Rh 2018

CONTROL - $10^{-3.0}$

DATE	DAY	REMARKS
MAY 22, 1951	0	
	1	
	2	
	3	
	4	
	5	
	6	
	7	
May 31,	9	Paralysis of uppers + lowers. Killed for virus.

Rh 2019

CONTROL - 10^{-3.0}

DATE	DAY	REMARKS
MAY 22, 1951	0	
	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	
June 21	29	
	30	Killed for histology

— SERUM DILUTION NEUTRALIZATION

Rh 2020

CONTROL — $10^{-3.0}$

DATE	DAY	REMARKS
MAY 22, 1951	0	
	1	
	2	
	3	
	4	
	5	
	6	
MAY 29,	7	Paralysis of rt. upper; partial paralysis of left upper. Partial paralysis of lowers. Sits with difficulty. Killed for virus.

- SERUM DILUTION NEUTRALIZATION

Rh 2021

CONTROL - $10^{-2.5}$

DATE	DAY	REMARKS
MAY 22, 1951	0	
	1	
	2	
	3	
	4	
	5	
	6	
	7	
	8	
	9	
	10	
	11	
	12	
	13	
	14	Weakness of rear legs - left more than right. Paralysis left deltoid. Killed for virus. injects CNS in Penicillin.

Bb 2022

CONTROL - $10^{-2.0}$

DATE	DAY	REMARKS
MAY 22, 1951	0	
	1	
	2	
	3	
	4	
	5	
	6	
	7	
May 31,	9	Partial paralysis of lowers; deltoid rt.
	10	Same
	11	Partial paralysis of extremities. Sits up.
	12	Paralysis of lowers - sits up but does not stand. Partial paralysis of uppers.
	13	Same.
	14	"
	15	"
	16	"
	17	"
June 9	18	Killed - no histology.

SERUM DILUTION NEUTRALIZATION

Rh 2023

CONTROL - $10^{-2.0}$

DATE	DAY	REMARKS
MAY 22, 1951	0	
	1	
	2	
	3	
	4	
	5	
May 29,	6	
	7	Complete paralysis of uppers. Killed for virus.

STANDARD B & P "NOTEPAR"

STANDARD B & P "NOTEPAR"

- SERUM DILUTION NEUTRALIZATION

Rh 2024

CONTROL - 10-2.0

DATE	DAY	REMARKS
MAY 22, 1951	0	
	1	
	2	
	3	
	4	
	5	
	6	
May 31,	7	Pilomotor reaction. Excited, Tremors.
June 1,	10	Extensive paralysis of lowers.
	11	Same.
	12	"
	13	"
	14	"
	15	"
	16	"
	17	"
June 9	18	Killed - no histology