

April 1, 1954

Cypr. 6114 - Mahon Subpass Mahoney, KP35 - Subpass

Paralyzed 14 days after inoculation

Tubes used: Series 47 of 3/23/54

On 3/31/54 sections of cord ground into 10% susp. centrifuged  
stand A-46

| Mat. Tested<br>Dil. & Amount | Tube<br>No. | 1/2 | 1/3   | 1/4 | 1/5 | 1/6 | 1/7 | 1/8 | 1/9 | Discard |
|------------------------------|-------------|-----|-------|-----|-----|-----|-----|-----|-----|---------|
|                              |             | 1   | 2     | 3   | 4   | 5   | 6   | 7   | 8   |         |
| 0.2 ml.<br>10 <sup>-1</sup>  | 47-61       | 0-1 | 2     |     | DF  |     |     |     |     |         |
|                              | 62          | 0   | cont. |     |     |     |     |     |     |         |
|                              | 63          | 2   | DF    |     |     |     |     |     |     |         |
| 10 <sup>-2</sup>             | 64          | 0   | 0     |     | 0   | 0   | 0   | 0   | 0   |         |
|                              | 65          | 0   | 0     |     | 0   | 0   | 0   | 0   | 0   |         |
|                              | 66          | 0   | 0     |     | 0   | 0   | 0   | 0   | 0   |         |
| 10 <sup>-3</sup>             | 67          | 0   | 0     |     | 0   | 0   | 0   | 0   | 0   |         |
|                              | 68          | 0   | 0     |     | 0   | 0   | 0   | 0   | 0   |         |
|                              | 69          | 0   | 0     |     | 0   | 0   | 0   | 0   | 0   |         |
| 10 <sup>-4</sup>             | 70          | 0   | 0     |     | 0   | 0   | 0   | 0   | 0   |         |
|                              | 71          | 0   | 0     |     | 0   | 0   | 0   | 0   | 0   |         |
| 10 <sup>-5</sup>             | 72          | 0   | 0     |     | 0   | 0   | 0   | 0   | 0   |         |
|                              | 73          | 0   | 0     |     | 0   | 0   | 0   | 0   | 0   |         |
| 10 <sup>-6</sup>             | 74          | 0   | 0     |     | 0   | 0   | 0   | 0   | 0   |         |
|                              | 75          | 0   | 0     |     | 0   | 0   | 0   | 0   | 0   |         |

Mistake

This is very strange - looks as if dilutions were not made - Repeat

APR 13 1954

Repeat Titration

- Be very careful

Cypr. 6114 Maloney Tulpage  
 stored A-4-69

Dr. Nakai - please see me about titrations  
 so that this sort of thing never  
 happens ~~it~~ again

Tube Test Series 53 of 4/5/54

| <u>Mat. Tested</u>   | <u>Tube</u> | <u>1/4</u> | <u>1/5</u> | <u>1/6</u> | <u>1/7</u> | <u>1/8</u> | <u>1/9</u> | <u>1/10</u> | <u>1/21</u> |     |
|----------------------|-------------|------------|------------|------------|------------|------------|------------|-------------|-------------|-----|
| <u>Dil. + Amount</u> | <u>No.</u>  | 1          | 2          | 3          | 4          | 5          | 6          | 7           | 8           |     |
| 1.7 ml. / $10^{-1}$  | 53-238      | 0          | +          | TH         |            |            |            |             |             | 3/3 |
|                      | 239         | 0          | 0-1        | TH         |            |            |            |             |             |     |
|                      | 240         | 0          | 0          | TH         |            |            |            |             |             |     |
| $10^{-2}$            | 241         | 0          | 0          | 0          | 0          | 0-1        | TH         |             |             | 3/3 |
|                      | 242         | 0          | 0          | 0          | +          |            |            |             |             |     |
|                      | 243         | 0          | 0          | 0          | 0          | +          |            |             |             |     |
| $10^{-3}$            | 244         | 0          | 0          | 0          | 0          | 0          | 0          | 0           | 0           | 1/3 |
|                      | 245         | 0          | 0          | 0          | 0          | TH         |            |             |             |     |
|                      | 246         | 0          | 0          | 0          | 0          | 3          | 0          | 0           |             |     |
| $10^{-4}$            | 247         | 0          | 0          | 0          | 0          | 0          | 0          | 0           |             |     |
|                      | 248         | 0          | 0          | 0          | 0          | 0          | 0          | 0           |             |     |
| $10^{-5}$            | 249         | 0          | 0          | 0          | 0          | 0          | 0          | 0           |             |     |
|                      | 250         | 0          | 0          | 0          | 0          | 0          | 0          | 0           |             |     |
| $10^{-6}$            | 251         | 0          | 0          | 0          | 0          | 0          | 0          | 0           |             |     |
|                      | 252         | 0          | 0          | 0          | 0          | 0          | 0          | 0           |             |     |

discard

$10^{-2.8}$  / 0.2 ml  
 $10^{3.5}$  TC<sub>50</sub> / GM

April 1, 1954

Cypr. 6116 - Mahoney Subpass - Mahoney KP35 - Subpass

Paralyzed 14 days after inoculation

Tubes Used Series 48 of 3/24/54

On 3/31/54 sections of cord ground into 10% susp. centrifuged  
Stored A-4-6

| 7 Mat. Tested | Tube | 1/2 | 1/3 | 1/4 | 1/5 | 1/6 | 1/7 | 1/8 | 1/9 |
|---------------|------|-----|-----|-----|-----|-----|-----|-----|-----|
| Dil. & Amount | 770. | 1   | 2   | 3   | 4   | 5   | 6   | 7   | 8   |

|                              |      |   |     |  |     |   |   |   |   |
|------------------------------|------|---|-----|--|-----|---|---|---|---|
| 0.2 ml.<br>/10 <sup>-1</sup> | 48-1 | 3 | 0/1 |  |     |   |   |   |   |
|                              | 2    | 3 | 1/1 |  |     |   |   |   |   |
|                              | 3    | 1 | 1/1 |  |     |   |   |   |   |
| 10 <sup>-2</sup>             | 4    | 3 | 1/1 |  |     |   |   |   |   |
|                              | 5    | 4 | 1/1 |  |     |   |   |   |   |
|                              | 6    | 1 | 1/1 |  |     |   |   |   |   |
| 10 <sup>-3</sup>             | 7    | 2 | 0/1 |  |     |   |   |   |   |
|                              | 8    | 2 | 1/1 |  |     |   |   |   |   |
|                              | 9    | 2 | 1/1 |  |     |   |   |   |   |
| 10 <sup>-4</sup>             | 10   | 0 | 1/1 |  |     |   |   |   |   |
|                              | 11   | 1 | 1/1 |  |     |   |   |   |   |
| 10 <sup>-5</sup>             | 12   | 0 | 3   |  | 0/1 |   |   |   |   |
|                              | 13   | 0 | 4   |  | 0/1 |   |   |   |   |
| 10 <sup>-6</sup>             | 14   | 0 | 0   |  | 0   | 0 | 0 | 0 | 0 |
|                              | 15   | 0 | 0   |  | 0   | 0 | 0 | 0 | 0 |

10<sup>-5.5</sup> / 0.2 ml Discard  
10<sup>6.2</sup> TC 250 / 6 ml

March 26, 1954

Page. 6117 Y-5K Subpassage Series

Ysk ~~6115~~ KP53, Lot 1 - 1cc → 5891 (P11, K11) <sup>1cc</sup> → 6117 (P9, K9)

3/26/54 sections  
 spiral core fresh ground into 10% susp.  
 centrifuged supernatant stored C-2-3

| Mat. Tested                | Tube | 3/27 | 3/28 | 3/29 | 3/30 | 3/31 | 4/1 | 4/2 | 4/3 | 4/4                             |
|----------------------------|------|------|------|------|------|------|-----|-----|-----|---------------------------------|
| Dil. + Amount              | 770. | 1    | 2    | 3    | 4    | 5    | 6   | 7   | 8   | 9                               |
| 0.2 ml. / 10 <sup>-1</sup> | 45-1 | 0    | 1-3  | TH   |      |      |     |     |     |                                 |
|                            | 2    | 0    | 2    | TH   |      |      |     |     |     |                                 |
|                            | 3    | 0    | 2    | TH   |      |      |     |     |     |                                 |
| 10 <sup>-2</sup>           | 4    | 0    | 1    | 4    |      |      |     |     |     |                                 |
|                            | 5    | 0    | 0    | 4    |      |      |     |     |     |                                 |
|                            | 6    | 0    | 2    | TH   |      |      |     |     |     |                                 |
| 10 <sup>-3</sup>           | 7    | 0    | 0    | 4    |      |      |     |     |     |                                 |
|                            | 8    | 0    | 0    | 0    | 0    | 0    | 4   |     |     |                                 |
|                            | 9    | 0    | 0    | 0    | 0    | 0    | 0   | 0   | 2   | + harvested 4/4<br>stored C-4-4 |
| 10 <sup>-4</sup>           | 10   | 0    | 0    | 0    | 0    | 0    | 0   | 0   | 0   |                                 |
|                            | 11   | 0    | 0    | 0    | 0    | 0    | 0   | 0   | 0   |                                 |
| 10 <sup>-5</sup>           | 12   | 0    | 0    | 0    | 0    | 0    | 0   | 0   | 0   | Discarded                       |
|                            | 13   | 0    | 0    | 0    | 0    | 0    | 0   | 0   | 0   |                                 |
| 10 <sup>-6</sup>           | 14   | 0    | 0    | 0    | 0    | 0    | 0   | 0   | 0   | Discarded                       |
|                            | 15   | 0    | 0    | 0    | 0    | 0    | 0   | 0   | 0   |                                 |

Harvest  
 save terminal  
 dilut. tube  
 discard rest

April 1, 1954

Oye. 6118 - Y-Sk Subpass - Y8K, KPS3 icer Subpass

Paralyzed 14 days after inoculation

Tubes Used: Series 48 of 3/24/54

On 3/31/54 sections of cord ground into 10% susp centrifuged  
strud A-4-6

| Tubes Tested<br>Dil. & Amount | Tube<br>No. | Discard |              |     |              |     |     |     |     |  |
|-------------------------------|-------------|---------|--------------|-----|--------------|-----|-----|-----|-----|--|
|                               |             | 4/2     | 4/3          | 4/4 | 4/5          | 4/6 | 4/7 | 4/8 | 4/9 |  |
|                               |             | 1       | 2            | 3   | 4            | 5   | 6   | 7   | 8   |  |
| 0.2 ml.<br>/ 10 <sup>-1</sup> | 48-16       | 1       | <del>1</del> |     |              |     |     |     |     |  |
|                               | 17          | 0       | <del>1</del> |     |              |     |     |     |     |  |
|                               | 18          | 0       | <del>1</del> |     |              |     |     |     |     |  |
| 10 <sup>-2</sup>              | 19          | 0       | 0            |     | 0            | 0   | 0   | 0   | 0   |  |
|                               | 20          | 0-?     | 0-?          |     | 0            | 0   | 0   | 0   | 0   |  |
|                               | 21          | 0       | 0            |     | <del>1</del> |     |     |     |     |  |
| 10 <sup>-3</sup>              | 22          | 0       | 0            |     | 0            | 0   | 0   | 0   | 0   |  |
|                               | 23          | 0       | 2            |     | <del>1</del> |     |     |     |     |  |
|                               | 24          | 0       | 0            |     | <del>1</del> |     |     |     |     |  |
| 10 <sup>-4</sup>              | 25          | 0       | 0            |     | 0            | 0   | 0   | 0   | 0   |  |
|                               | 26          | 0       | 0            |     | 0            | 0   | 0   | 0   | 0   |  |
| 10 <sup>-5</sup>              | 47-X        | 0       | 0            |     | 0            | 0   | 0   | 0   | 0   |  |
|                               | 76          | 0       | 0            |     | 0            | 0   | 0   | 0   | 0   |  |
|                               | 77          | 0       | 0            |     | 0            | 0   | 0   | 0   | 0   |  |
| 10 <sup>-6</sup>              | 78          | 0       | 0            |     | 0            | 0   | 0   | 0   | 0   |  |

|   |   |                                       |   |
|---|---|---------------------------------------|---|
| 3 | 0 | 6                                     | 0 |
| 1 | 2 | 3                                     | 2 |
| 2 | 1 | 2                                     | 3 |
| 0 | 2 | 0                                     | 0 |
|   |   | 60%                                   |   |
|   |   | 90%                                   |   |
|   |   | $\frac{60-50}{60-40} = \frac{10}{20}$ |   |

10<sup>-2.5</sup> / 0.2 ml

10<sup>3.2</sup> TC<sub>50</sub> / Gm

Oxpe 6119 - Y8K, KPS3 Jeer Subpassage  
from Cyn 5891

Partial right upper - clumsy lowers - 21 days after inocul.

On 4/7/54 sections of egg ground into 10% susp. centrifuged  
supernatant stored A-4-5

Inoculated Series 52 of 3/30/54

| <u>Mat. Tested</u>       | <u>Tube</u> | $\frac{1}{8}$ | $\frac{1}{9}$ | $\frac{1}{10}$ | $\frac{1}{11}$ | $\frac{1}{12}$ | $\frac{1}{13}$ | $\frac{1}{14}$ | $\frac{1}{15}$ | $\frac{1}{16}$ |
|--------------------------|-------------|---------------|---------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| <u>Dil. &amp; Amount</u> | <u>TNo.</u> | 1             | 2             | 3              | 4              | 5              | 6              | 7              | 8              | 9              |
| 0.2 ml / $10^{-1}$       | X<br>52-1   | 0             | 1             | 4              |                |                |                |                |                |                |
|                          | 2           | 0             | 0             | 4              |                |                |                |                |                |                |
|                          | 3           | 0             | 0             | 0              |                | 99             |                |                |                |                |
| $10^{-2}$                | 4           | 0             | 0             | 0              |                | 99             |                |                |                |                |
|                          | 5           | 0             | 0             | 0              |                | 0              | 0              | 0              | 0              | 0              |
|                          | 6           | 0             | 0             | 0              |                | 4              |                |                |                |                |
| $10^{-3}$                | 7           | 0             | 0             | 0              |                | 0              | 0              | 0              | 0              | 0              |
|                          | 8           | 0             | 0             | 0              |                | 0              | 0              | 0              | 0              | 0              |
|                          | 9           | 0             | 0             | 0              |                | 0              | 0              | 0              | 0?             | 0              |
| $10^{-4}$                | 10          | 0             | 0             | 0              |                | 0              | 0              | 0              | 0              | 0              |
|                          | 11          | 0             | 0             | 0              |                | 0              | 0              | 0              | 0              | 0              |
| $10^{-5}$                | 12          | 0             | 0             | 0              |                | 0              | 0              | 0              | 0              | 0              |
|                          | 13          | 0             | 0             | 0              |                | 0              | 0              | 0              | 0              | 0              |
| $10^{-6}$                | 14          | 0             | 0             | 0              |                | 0              | 0              | 0              | 0              | 0              |
|                          | 15          | 0             | 0             | 0              |                | 0              | 0              | 0              | 0              | 0              |

discarded

$10^{-2.3} / 0.2 \text{ ml}$   
 $10^3 \text{ TCDS / Gram}$

MAR 24 1954

Cyn 6122 - Leon KP34 (icer) Series -  
Subpass from Cyn 5928

Par. 6 days after i.cer. inoculation; lumb + cer. rev. 3/23/54  
 strand A-4-4

Leon KP34; lot 1  $\xrightarrow{\text{icer}}$  5928 (P16; K16 - incomplete effect in tiss cult)  $\xrightarrow{\text{icer}}$  6122

| Mat. Tested<br>Dil. + Amount | Tubes<br>No. |           |           |           |           |           |           |           |          |        |         |           | Save |  |
|------------------------------|--------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|--------|---------|-----------|------|--|
|                              |              | 3/25<br>1 | 3/26<br>2 | 3/27<br>3 | 3/28<br>4 | 3/29<br>5 | 3/30<br>6 | 3/31<br>7 | 4/1<br>8 | 2<br>9 | 3<br>10 | 4/4<br>11 |      |  |
| 0.2 ml /<br>10 <sup>-1</sup> | 43-40        | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0        | 0      | 0       | 0         | 0    |  |
|                              | 41           | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0        | 0      | 0       | 0         | 0    |  |
|                              | 42           | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0        | 0      | 0       | 0         | 0    |  |
| 10 <sup>-2</sup>             | 44           | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0        | 0      | 0       | 0         | 0    |  |
|                              | 45           | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0        | 0      | 0       | 0         | 0    |  |
|                              | 46           | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0        | 0      | 0       | 0         | 0    |  |
| 10 <sup>-3</sup>             | 47           | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0        | 0      | 0       | 0         | 0    |  |
|                              | 48           | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0        | 0      | 0       | 0         | 0    |  |
|                              | 49           | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0        | 0      | 0       | 0         | 0    |  |
| 10 <sup>-4</sup>             | 50           | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0        | 0      | 0       | 0         | 0    |  |
|                              | 51           | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0        | 0      | 0       | 0         | 0    |  |
| 10 <sup>-5</sup>             | 52           | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0        | 0      | 0       | 0         | 0    |  |
|                              | 53           | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0        | 0      | 0       | 0         | 0    |  |
| 10 <sup>-6</sup>             | 54           | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0        | 0      | 0       | 0         | 0    |  |
|                              | 55           | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0        | 0      | 0       | 0         | 0    |  |

3/31/54 all tubes are beginning to show non specific slumpy degeneration



Byn. 6139 Montgomery Meloney

Histology neg.

On 4/11/54 sections of unincubated (lumber) wood ground into  
10% susp. centrifuged supernatant stored A.6-4

Tube used Series 54 of 4/6/54

| Treat. Tested                | Tube             | 4/18 | 4/19 | 4/20 | 4/21 | 4/22 | 4/23 | 4/24 | 4/25 | 4/26 |      |
|------------------------------|------------------|------|------|------|------|------|------|------|------|------|------|
| Dil. Amount                  | No.              | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | disc |
| 0.2 ml.<br>/10 <sup>-1</sup> | 54-690           |      | 0    | 0    | 0    | 0    | 0    | 0    |      | 0    |      |
|                              | 691              |      | 0    | 0    | 0    | 0    | 0    | 0    |      | 0    |      |
|                              | 692              |      | 0    | 0    | 0    | 0    | 0    | 0    |      | 0    |      |
| 10 <sup>-2</sup>             | 693              |      | 0    | 0    | 0    | 0    | 0    | 0    |      | 0    |      |
|                              | 694              |      | 0    | 0    | 0    | 0    | 0    | 0    |      | 0    |      |
|                              | 695              |      | 0    | 0    | 0    | 0    | 0    | 0    |      | 0    |      |
| 10 <sup>-3</sup>             | 696              |      | 0    | 0    | 0    | 0    | 0    | 0    |      | 0    |      |
|                              | 697              |      | 0    | 0    | 0    | 0    | 0    | 0    |      | 0    |      |
|                              | 698              |      | 0    | 0    | 0    | 0    | 0    | 0    |      | 0    |      |
| 10 <sup>-4</sup>             | 699              |      | 0    | 0    | 0    | 0    | 0    | 0    |      | 0    |      |
|                              | 8 <del>700</del> |      | 0    | 0    | 0    | 0    | 0    | 0    |      | 0    |      |
| 10 <sup>-5</sup>             | <del>701</del>   |      | 0    | 0    | 0    | 0    | 0    | 0    |      | 0    |      |
|                              | <del>702</del>   |      | 0    | 0    | 0    | 0    | 0    | 0    |      | 0    |      |
| 10 <sup>-6</sup>             | <del>703</del>   |      | 0    | 0    | 0    | 0    | 0    | 0    |      | 0    |      |
|                              | <del>704</del>   |      | 0    | 0    | 0    | 0    | 0    | 0    |      | 0    |      |

April 6, 1954

Cypr. 6140

Received Montgomery Toraloney - Mouse Cord Icer

Paralysis left upper 12 days after inoculation

Histology - neg

8/26/54 sections of spinal cord ground into 10% susp  
centrifuged supernatant stored C-4-5

discard

Inoculated Series 52 of 3/30/54

| <u>Mat. Tested</u>         | <u>Tube</u> | <u>4/7</u> | <u>4/8</u> | <u>4/9</u> | <u>4/10</u> | <u>4/11</u> | <u>4/12</u> | <u>4/13</u> | <u>4/14</u> | discard |
|----------------------------|-------------|------------|------------|------------|-------------|-------------|-------------|-------------|-------------|---------|
| 2.2ml/<br>10 <sup>-1</sup> | 52-31       | 0          | 0          | 0          | 0           |             | 0           | 0           | 0           |         |
|                            | 32          | 0          | 0          | 0          | 0           |             | 0           | 0           | 0           |         |
|                            | 33          | 0          | 0          | 0          | 0           |             | 0           | 0           | 0           |         |
| 10 <sup>-2</sup>           | 34          | 0          | 0          | 0          | 0           |             | 0           | 0           | 0           |         |
|                            | 35          | 0          | 0          | 0          | 0           |             | 0           | 0           | 0           |         |
|                            | 36          | 0          | 0          | 0          | 0           |             | 0           | 0           | 0           |         |
| 10 <sup>-3</sup>           | 37          | 0          | 0          | 0          | 0           |             | 0           | 0           | 0           |         |
|                            | 38          | 0          | 0          | 0          | 0           |             | 0           | 0           | 0           |         |
|                            | 39          | 0          | 0          | 0          | 0           |             | 0           | 0           | 0           |         |
| 10 <sup>-4</sup>           | 40          | 0          | 0          | 0          | 0           |             | 0           | 0           | 0           |         |
|                            | 41          | 0          | 0          | act.       |             |             |             |             |             |         |
| 10 <sup>-5</sup>           | 42          | 0          | 0          | 0          | 0           |             | 0           | 0           | 0           |         |
|                            | 43          | 0          | 0          | 0          | 0           |             | 0           | 0           | 0           |         |
| 10 <sup>-6</sup>           | 44          | 0          | 0          | 0          | 0           |             | 0           | 0           | 0           |         |
|                            | 45          | 0          | 0          | 0          | 0           |             | 0           | 0           | 0           |         |

Pass any suspicious tubes  
Harvest any positive tubes  
Discard all others at  
8 days

Cym 6157 - Brunhilde-Enders-Chimp K P 4

4/3/54 "Weak left lower; toes in flexion" - 5 days after inoculation  
 I did not see this monkey

Histology - ~~was~~ focal lesions in lumbar cord

On 4/3/54 sections ground into 10<sup>7</sup> amp.  
 centrifuged supernatant stored C-4-5

Tubes used Series 52 of <sup>29</sup> 3/20/54

| <u>Mat. Tested</u> | <u>Dil. &amp; Amount</u> | <u>Tube</u> | <u>4/6</u> | <u>4/7</u>      | <u>4/8</u> | <u>4/9</u> | <u>4/10</u> | <u>4/11</u> | <u>4/12</u> | <u>4/13</u> |
|--------------------|--------------------------|-------------|------------|-----------------|------------|------------|-------------|-------------|-------------|-------------|
|                    |                          |             | <u>1</u>   | <u>2</u>        | <u>3</u>   | <u>4</u>   | <u>5</u>    | <u>6</u>    | <u>7</u>    | <u>8</u>    |
| 0.2 ml.            | / 10 <sup>-1</sup>       | 57-16       | 0          | 0               | 0          | 0          | 0           |             | 0           | 0           |
|                    |                          | 17          | 0          | 0               | 0          | 0          | 0           |             | 0           | 0           |
|                    |                          | 18          | 0          | fold small mass |            |            |             |             |             |             |
| 10 <sup>-2</sup>   |                          | 19          | 0          | 0               | 0          | 0          | 0           |             | 0           | 0           |
|                    |                          | 20          | 0          | 0               | 0          | 0          | 0           |             | 0           | 0           |
|                    |                          | 21          | 0          | 0               | 0          | 0          | 0           |             | 0           | 0           |
| 10 <sup>-3</sup>   |                          | 22          | 0          | 0-?             | 0          | 0          | 0           |             | 0           | 0           |
|                    |                          | 23          | 0          | 0               | 0          | 0          | 0           |             | 0           | 0           |
|                    |                          | 24          | 0          | 0               | 0          | 0          | 0           |             | 0           | 0           |
| 10 <sup>-4</sup>   |                          | 25          | 0          | 0               | 0          | 0          | 0           |             | 0           | 0           |
|                    |                          | 26          | 0          | 0               | 0          | 0          | 0           |             | 0           | 0           |
| 10 <sup>-5</sup>   |                          | 27          | 0          | 0               | 0          | 0          | 0           |             | 0           | 0           |
|                    |                          | 28          | 0          | 0               | 0          | 0          | 0           |             | 0           | 0           |
| 10 <sup>-6</sup>   |                          | 29          | 0          | 0               | 0          | 0          | 0           |             | 0           | 0           |
|                    |                          | 30          | 0          | 0               | 0          | 0          | 0           |             | 0           | 0           |

Pass any suspicious tube  
 Harvest any pos. tube  
 Discard all others at 8 days

Cypr 6165 - Br. Enders - Chimp - KP 23 (large inocules)

Paralyzed 5 days after inoculation

On 4/3/54 sections of cord ground into 10% susp centri  
fuged supernatant frozen C-4-5

Inoculated Series 52 of 3/30/54<sup>29</sup>

| <u>Treat. Tested</u> | <u>Tube</u> | $\frac{1}{6}$ | $\frac{1}{7}$ | $\frac{1}{8}$ | $\frac{1}{9}$ | $\frac{1}{10}$ | $\frac{1}{11}$ | $\frac{1}{12}$ | $\frac{1}{13}$ | Discard |
|----------------------|-------------|---------------|---------------|---------------|---------------|----------------|----------------|----------------|----------------|---------|
| <u>Dil. + Amount</u> | <u>770.</u> | 1             | 2             | 3             | 4             | 5              | 6              | 7              | 8              |         |
| 0.2 ml. / $10^{-1}$  | 31          | 0             | 0             | 0             | 1             | 4              |                |                |                |         |
|                      | 32          | 0             | 0             | 2             | NA            |                |                |                |                |         |
|                      | 33          | 0             | 0-1           | NA            |               |                |                |                |                |         |
| $10^{-2}$            | 34          | 0             | 0             | 1             | NA            |                |                |                |                |         |
|                      | 35          | 0             | 0             | 4             | NA            |                |                |                |                |         |
|                      | 36          | 0             | 0             | 4             |               |                |                |                |                |         |
| $10^{-3}$            | 37          | 0             | 0             | 0             | 0             | 0              |                | NA             | 0              |         |
|                      | 38          | 0             | 0             | 0             | 0             | 0              |                | 0              | 0              |         |
|                      | 39          | 0             | 0             | 0             | 0             | 0              |                | 0              | 0              |         |
| $10^{-4}$            | 40          | 0             | 0             | 0             | 0             | 0              |                | 0              | 0              |         |
|                      | 41          | 0             | 0             | 0             | 0             | 0              |                | 0              | 0              |         |
| $10^{-5}$            | 42          | 0             | 0             | 0             | 0             | 0              |                | 0              | 0              |         |
|                      | 43          | 0             | 0             | 0             | 0             | 0              |                | 0              | 0              |         |
| $10^{-6}$            | 44          | 0             | 0             | 0             | 0             | 0              |                | 0              | 0              |         |
|                      | 45          | 0             | 0             | 0             | 0             | 0              |                | 0              | 0              |         |

$10^{-2.8}$  / 0.2 ml  
 $10^{-3.5}$  / 0.5 ml

Opr 6166 Dead

Branched Echin Chimp KP.23

Dead 24 days after i.c.m. infection of  $10^{7.3}$   $10^{7.0}$ histology negOn 4/22/54 sections of mid-lumbar & mid-cervical  
cord ground into 10% susp. centrifuged  
supernatant stored 0-5-7 — Discarded

Index Card Series 62 of 4/15/54

Tissue Dilution  
& Amount  
Inoc. Tested

|                             | Tube | #123 | #124 | #125 | #126 | #127 | #128 | #129 | #130 |
|-----------------------------|------|------|------|------|------|------|------|------|------|
|                             | 710. | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    |
| 0.2ml./<br>10 <sup>-1</sup> | 62-1 | 0    | 0    |      | 0    | 0    | 0    |      | 0    |
|                             | 2    | 0    | 0    |      | 0    | 0    | 0    |      | 0    |
|                             | 3    | 0    | 0    |      | 0    | 0    | 0    |      | 0    |
| 10 <sup>-2</sup>            | 4    | 0    | 0    |      | 0    | 0    | 0    |      | 0    |
|                             | 5    | 0    | 0    |      | 0    | 0    | 0    |      | 0    |
|                             | 6    | 0    | 0    |      | 0    | 0    | 0    |      | 0    |
| 10 <sup>-3</sup>            | 7    | 0    | 0    |      | 0    | 0    | 0    |      | 0    |
|                             | 8    | 0    | 0    |      | 0    | 0    | 0    |      | 0    |
|                             | 9    | 0    | 0    |      | 0    | 0    | 0    |      | 0    |
| 10 <sup>-4</sup>            | 10   | 0    | 0    |      | 0    | 0    | 0    |      | 0    |
|                             | 11   | 0    | 0    |      | 0    | 0    | 0    |      | 0    |
| 10 <sup>-5</sup>            | 12   | 0    | 0    |      | 0    | 0    | 0    |      | 0    |
|                             | 13   | 0    | 0    |      | 0    | 0    | 0    |      | 0    |
| 10 <sup>-6</sup>            | 14   | 0    | 0    |      | 0    | 0    | 0    |      | 0    |
|                             | 15   | 0    | 0    |      | 0    | 0    | 0    |      | 0    |

APR 13 1954

Cym 6172 Brunhild-Zadus (Kimp) P. 23

On 4/13/54 sections of 2nd ground into 10% susp centrifuged  
supernatant stored C-2-1

Industried Series 55 of 4/7/54

| Treat. Tested             | Tube  | 1/4 | 1/5 | 1/6          | 1/7 | 1/8 | 1/9          | 1/20 | 1/21 | discard |
|---------------------------|-------|-----|-----|--------------|-----|-----|--------------|------|------|---------|
| Dil. & Amount             | 770.  | 1   | 2   | 3            | 4   | 5   | 6            | 7    | 8    |         |
| 0.27ml / 10 <sup>-1</sup> | 55-76 | 0   | 0   | 1            | 4   |     |              |      |      | 2/3     |
|                           | 77    | 0   | 0   | 0            | 0   |     | 0            | 0    | 0    |         |
|                           | 78    | 0   | 0-1 | <del>1</del> |     |     |              |      |      |         |
| 10 <sup>-2</sup>          | 79    | 0   | 0   | 0            | 0   |     | 0            | 0    | 0    | 2/3     |
|                           | 80    | 0   | 0   | 4            |     |     |              |      |      |         |
|                           | 81    | 0   | 0   | 0            | 0   |     | 4            |      |      |         |
| 10 <sup>-3</sup>          | 82    | 0   | 0   | 0            | 3   |     | <del>1</del> |      |      | 1/3     |
|                           | 83    | 0   | 0   | 0            | 0   |     | 0            | 0    | 0    |         |
|                           | 84    | 0   | 0   | 0            | 0   |     | 0            | 0    | 0    |         |
| 10 <sup>-4</sup>          | 85    | 0   | 0   | 0            | 0   |     | 0            | 0    | 0    | 0/2     |
|                           | 86    | 0   | 0   | 0            | 0   |     | 0            | 0    | 0    |         |
| 10 <sup>-5</sup>          | 87    | 0   | 0   | 0            | 0   |     | 0            | 0    | 0    | 0/2     |
|                           | 88    | 0   | 0   | 0            | 0   |     | 0            | 0    | 0    |         |
| 10 <sup>-6</sup>          | 89    | 0   | 0   | 0            | 0   |     | 0            | 0    | 0    | 0/2     |
|                           | 90    | 0   | 0   | 0            | 0   |     | 0            | 0    | 0    |         |

|   |   |   |   |    |   |
|---|---|---|---|----|---|
| 2 | 1 | 5 | 1 |    |   |
| 2 | 1 | 3 | 2 | 60 | $\frac{60-50=10}{60-20} \frac{10}{40} = 0.25$ |
| 1 | 2 | 1 | 4 | 20 |   |
| 0 | 2 | 0 |   |    |   |

10<sup>-2.25</sup> / 0.2ml10<sup>3.0</sup> rejoin

April 6, 1954

Dead Cyte. 6176

received Frakoney K.P. 34 Large Bottle, Large  
Inoculum Intracerebrally

Found dead 8 days after inoculation.  
No paralysis; diarrhoea.

On 4/6/54 sections of spinal cord ground into 10%  
susp. centrifuged supernatant stored

Inoculated Series 52 of 3/30/54

0-4-5

discard

| <u>Material Tested</u>       | <u>Tube</u> |       |     |     |      |      |      |      |      |         |
|------------------------------|-------------|-------|-----|-----|------|------|------|------|------|---------|
| <u>Dilution &amp; Amount</u> | <u>No.</u>  | 1/7   | 1/8 | 1/9 | 1/10 | 1/11 | 1/12 | 1/13 | 1/14 | Discard |
| 2.7 ml. / 10 <sup>-1</sup>   | 52-1        | Point | d   | d   | d    |      |      |      |      |         |
|                              | 2           | 0     | 0   | 0   | 0    |      | 0    | 0    | 0    |         |
|                              | 3           | 0     | 0   | 0   | 0    |      | 0    | 0    | 0    |         |
| 10 <sup>-2</sup>             | 4           | 0     | 0   | 0   | 0    |      | 0    | 0    | 0    |         |
|                              | 5           | 0     | 0   | 0   | 0    |      | 0    | 0    | 0    |         |
|                              | 6           | 0     | 0   | 0   | 0    |      | 0    | 0    | 0    |         |
| 10 <sup>-3</sup>             | 7           | 0     | 0   | 0   | 0    |      | 0    | 0    | 0    |         |
|                              | 8           | 0     | 0   | 0   | 0    |      | 0    | 0    | 0    |         |
|                              | 9           | 0     | 0   | 0   | 0    |      | 0    | 0    | 0    |         |
| 10 <sup>-4</sup>             | 10          | 0     | 0   | 0   | 0    |      | 0    | 0    | 0    |         |
|                              | 11          | 0     | 0   | 0   | 0    |      | 0    | 0    | 0    |         |
| 10 <sup>-5</sup>             | 12          | 0     | 0   | 0   | 0    |      | 0    | 0    | 0    |         |
|                              | 13          | 0     | 0   | 0   | 0    |      | 0    | 0    | 0    |         |
| 10 <sup>-6</sup>             | 14          | 0     | 0   | 0   | 0    |      | 0    | 0    | 0    |         |
|                              | 15          | 0     | 0   | 0   | 0    |      | 0    | 0    | 0    |         |

APR 17 1954

Cypr. 6181

Fransony K.P. 24 Large Basin

(mid-lumbar & cervical)

On 4/9/54 sections of ground into 10% susp. centrifuge  
 Supernatant stored A-4-7

Tuber Test Series 58 of 4/9/54

| <u>Mat. Tested</u>         | <u>Tube</u> | <u>#18</u> | <u>#19</u> | <u>#20</u> | <u>#21</u> | <u>#22</u> | <u>#23</u> | <u>#24</u> | <u>#25</u> | <u>#26</u> | <u>discard</u> |
|----------------------------|-------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|----------------|
| <u>Dil. &amp; Amount</u>   | <u>No.</u>  | 1          | 2          | 3          | 4          | 5          | 6          | 7          | 8          | 9          |                |
| 0.2 ml. / 10 <sup>-1</sup> | 58-1        |            | OH         |            |            |            |            |            |            |            |                |
|                            | 2           |            | OH         |            |            |            |            |            |            |            |                |
|                            | 3           |            | OH         |            |            |            |            |            |            |            |                |
| 10 <sup>-2</sup>           | 4           |            | OH         |            |            |            |            |            |            |            |                |
|                            | 5           |            | OH         |            |            |            |            |            |            |            |                |
|                            | 6           |            | OH         |            |            |            |            |            |            |            |                |
| 10 <sup>-3</sup>           | 7           |            | 0          | 0          | OH         |            |            |            |            |            |                |
|                            | 8           |            | 0          | 0          | 0          | 0          | 0          | 0          |            | 0          |                |
|                            | 9           |            | 2-3        | OH         |            |            |            |            |            |            |                |
| 10 <sup>-4</sup>           | 10          |            | 0          | 0          | 0          | 0          | 0          | 0          |            | 0          |                |
|                            | 11          |            | 0          | 0          | 0          | 0          | 0          | 0          |            | 0          |                |
| 10 <sup>-5</sup>           | 12          |            | 0          | 0          | 0          | 0          | 0          | 0          |            | 0          |                |
|                            | 13          |            | 0          | 0          | 0          | 0          | 0          | 0          |            | 0          |                |
| 10 <sup>-6</sup>           | 14          |            | 0          | 0          | 0          | 0          | 0          | 0          |            | 0          |                |
|                            | 15          |            | 0          | 0          | 0          | 0          | 0          | 0          |            | 0          |                |

10<sup>-3.3</sup> / 0.2 ml  
 10<sup>4</sup> TC<sub>50</sub> / gram

APR 22 1954

Cyr. 6183 Tomoney S.P. 24 Spinal Tube

Dead 24 days - no paralysis

Histology negative

On 4/22/54 sections of mid lumbar & mid cervical cord  
ground into 10<sup>-7</sup> susp. centrifuged super-  
natant stored C-5-7 discard

Tubes used Series 62 of 4/15/54

| Tubes Tested               | Tube No. | 4/23 | 4/24 | 4/25 | 4/26 | 4/27 | 4/28 | 4/29 | 4/30 |
|----------------------------|----------|------|------|------|------|------|------|------|------|
| Dil. & Amount              | No.      | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    |
| 2.2 ml. / 10 <sup>-1</sup> | 62-16    | 0    | 0    |      | 0    | 0    | 0    |      | 0    |
|                            | 17       | 0    | 0    |      | 0    | 0    | 0    |      | 0    |
|                            | 18       | 0    | 0    |      | 0    | 0    | 0    |      | 0    |
| 10 <sup>-2</sup>           | 19       | 0    | 0    |      | 0    | 0    | 0    |      | 0    |
|                            | 20       | 0    | 0    |      | 0    | 0    | 0    |      | 0    |
|                            | 21       | 0    | 0    |      | 0    | 0    | 0    |      | 0    |
| 10 <sup>-3</sup>           | 22       | 0    | 0    |      | 0    | 0    | 0    |      | 0    |
|                            | 23       | 0    | 0    |      | 0    | 0    | 0    |      | 0    |
|                            | 24       | 0    | 0    |      | 0    | 0    | 0    |      | 0    |
| 10 <sup>-4</sup>           | 25       | 0    | 0    |      | 0    | 0    | 0    |      | 0    |
|                            | 26       | 0    | 0    |      | 0    | 0    | 0    |      | 0    |
| 10 <sup>-5</sup>           | 27       | 0    | 0    |      | 0    | 0    | 0    |      | 0    |
|                            | 28       | 0    | 0    |      | 0    | 0    | 0    |      | 0    |
| 10 <sup>-6</sup>           | 29       | 0    | 0    |      | 0    | 0    | 0    |      | 0    |
|                            | 30       | 0    | 0    |      | 0    | 0    | 0    |      | 0    |

Cypr. 6189 - Mahoney KP34 - Special Tube  
Large inoculum

Paralyzed 10 days after intracerebral injection.

On 4/8/54 sections of cord ground into 10% susp.  
centrifuged supernatant stored A-11-8

Tubes used Series 52 of 3/30/54

| <u>Mat. Tested</u>          | <u>Tubes</u> | <u>4/9</u> | <u>4/10</u> | <u>4/11</u> | <u>4/12</u> | <u>4/13</u> | <u>4/14</u> | <u>4/15</u> | <u>4/16</u> |      |
|-----------------------------|--------------|------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|------|
| <u>Dil. &amp; Amount</u>    | <u>770.</u>  | 1          | 2           | 3           | 4           | 5           | 6           | 7           | 8           | Days |
| 0.2 ml.<br>10 <sup>-1</sup> | 52-146       | 0          | 0           |             | TH          |             |             |             |             |      |
|                             | 147          | 0          | 2           |             | TH          |             |             |             |             |      |
|                             | 148          | 0          | 0           |             | TH          |             |             |             |             |      |
| 10 <sup>-2</sup>            | 149          | 0          | 0           |             | TH          |             |             |             |             |      |
|                             | 150          | 0          | 1           |             | TH          |             |             |             |             |      |
|                             | 151          | 0          | 1           |             | TH          |             |             |             |             |      |
| 10 <sup>-3</sup>            | 152          | 0          | 0           |             | TH          |             |             |             |             |      |
|                             | 153          | 0          | 0           |             | TH          |             |             |             |             |      |
|                             | 154          | 0          | 0           |             | TH          |             |             |             |             |      |
| 10 <sup>-4</sup>            | 155          | 0          | 0           |             | 0-1         | TH          |             |             |             |      |
|                             | 156          | 0          | 0           |             | 0           | 0           | 0           | 0           | 0           |      |
| 10 <sup>-5</sup>            | 157          | 0          | 0           |             | 0           | 0           | 0?          | 4           |             |      |
|                             | 158          | 0          | 0           |             | 0           | 0           | 0           | 0           | 0           |      |
| 10 <sup>-6</sup>            | 159          | 0          | 0           |             | 0           | 0           | 0           | 0           | 0           |      |
|                             | 160          | 0          | 0           |             | 0           | 0           | 0           | 0           | 0           |      |

10<sup>-4.5</sup> / 0.2 ml

10<sup>5.2</sup> TCID<sub>50</sub> / gm

Cypr 6191

Frakony P-34 - Special Tube of 3/20/54

Monkey inoc. ices with  $\approx 10^6$  TCID<sub>50</sub> - Par. 18 days later

~~Notes~~

Apr 4/16/54 sections of eard ground into 10% susp centrifuged  
supernatant stored A-3-4

Tubes used Series 56 of 4/8/54

| Mat. Tested               | Tube No. | 4/17 | 4/18 | 4/19 | 4/20 | 4/21 | 4/22 | 4/23 | 4/24 | 4/26 | discard |
|---------------------------|----------|------|------|------|------|------|------|------|------|------|---------|
| Dil. & Amount             | No.      | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 10   |         |
| 2.7 ml / 10 <sup>-1</sup> | 56-1     | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |         |
|                           | 2        | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |         |
|                           | 3        | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 2    | 0    |         |
| 10 <sup>-2</sup>          | 4        | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |         |
|                           | 5        | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |         |
|                           | 6        | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |         |
| 10 <sup>-3</sup>          | 7        | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |         |
|                           | 8        | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |         |
|                           | 9        | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |         |
| 10 <sup>-4</sup>          | 10       | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |         |
|                           | 11       | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |         |
| 10 <sup>-5</sup>          | 12       | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |         |
|                           | 13       | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |         |
| 10 <sup>-6</sup>          | 14       | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |         |
|                           | 15       | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |         |

x 4/21/54

Full Tube 56-8 0.17 ml  
 Tube 70 4/22 4/23  
 59-A 0  
 B 4/24 0  
 2 Hammett freeze  
 store C-2-1

April 3, 1954

Cypr. 6192 - KP 34 - Mahoney - Special tube - large mass

Found dead morning of 3<sup>rd</sup> day

Histology - neg.

Tubes used Series 3/26/54 - 50

On 4/1/54 sections of spinal cord ground into 10% susp.  
centrifuged supernatant stored 0-4-3 - discard

| <u>Mat. Tested</u>            | <u>Tube</u> | <u>4/4</u> | <u>4/5</u>   | <u>4/6</u>   | <u>4/7</u> | <u>4/8</u> | <u>4/9</u> | <u>4/10</u> | <u>4/11</u> | <u>4/12</u> | Discard |
|-------------------------------|-------------|------------|--------------|--------------|------------|------------|------------|-------------|-------------|-------------|---------|
| <u>Dil. &amp; Amount</u>      | <u>T10.</u> | 1          | 2            | 3            | 4          | 5          | 6          | 7           | 8           | 9           |         |
| 0.2 ml.<br>/ 10 <sup>-1</sup> | 50-21       | 4          |              |              |            |            |            |             |             |             |         |
|                               | 22          | 0          | <del>4</del> |              |            |            |            |             |             |             |         |
|                               | 23          | 3          | <del>4</del> |              |            |            |            |             |             |             |         |
| 10 <sup>-2</sup>              | 24          | 0          | 2            | <del>4</del> |            |            |            |             |             |             |         |
|                               | 25          | 0          | 0            | <del>4</del> | 4          |            |            |             |             |             |         |
|                               | 26          | 0          | 0            | 0            | 0          | 0          | 0          |             |             | 0           |         |
| 10 <sup>-3</sup>              | 27          | 0          | 0            | 0            | 0          | 0          | 0          |             |             | 0           |         |
|                               | 28          | 0          | 4            |              |            |            |            |             |             |             |         |
|                               | 29          | 0          | 0            | 0            | 0          | 0          | 0          |             |             | 0           |         |
| 10 <sup>-4</sup>              | 30          | 0          | 0            | 0            | 0          | 0          | 0          |             |             | 0           |         |
|                               | 31          | 0          | 0            | 0            | 0          | 0          | 0          |             |             | 0           |         |
|                               | 32          | 0          | 0            | 0            | 0          | 0          | 0          |             |             | 0           |         |
| 10 <sup>-5</sup>              | 33          | 0          | 0            | 0            | 0          | 0          | 0          |             |             | 0           |         |
|                               | 34          | 0          | 0            | 0            | 0          | 0          | 0          |             |             | 0           |         |
| 10 <sup>-6</sup>              | 35          | 0          | 0            | 0            | 0          | 0          | 0          |             |             | 0           |         |

10<sup>-2.5</sup> / 0.2 ml

10<sup>3.2</sup> TCD<sub>50</sub> / cm.

April 6, 1954

Cypr. 6705

received Tokomey KP-54 Terminal Dilution  
10<sup>-6</sup> (38-16) of KP33 Jar.

Partial par. uppers 8 days after inoculation.

On 4/6/54 sections of spinal cord ground into 10% susp.  
centrifuged supernatant stored C-4-5

Substituted Series 52 of 3/20/54

| <u>Inst. Tested</u>       | <u>Tube</u> | 4/7 | 4/8  | 4/9       | 4/10 | 4/11 | 4/12           | 4/13           | 4/14           | Discard |
|---------------------------|-------------|-----|------|-----------|------|------|----------------|----------------|----------------|---------|
| <u>Dil. Constant</u>      | <u>770.</u> | 1   | 2    | 3         | 4    | 5    | 6              | 7              | 8              |         |
| 2.2 ml / 10 <sup>-1</sup> | 52-16       | 0-? | 1    | acid acid |      |      | 77             |                |                |         |
|                           | 17          | 1   | 2    | acid acid |      |      | 77             |                |                |         |
|                           | 18          | 0   | 3    | acid acid |      |      | 77             |                |                |         |
| 10 <sup>-2</sup>          | 19          | 0   | 4 77 |           |      |      |                |                |                |         |
|                           | 20          | 0   | 3 77 |           |      |      |                |                |                |         |
|                           | 21          | 0   | 4 77 |           |      |      |                |                |                |         |
| 10 <sup>-3</sup>          | 22          | 0   | 4    |           |      |      |                |                |                |         |
|                           | 23          | 0   | 4    |           |      |      |                |                |                |         |
|                           | 24          | 0   | 4    |           |      |      |                |                |                |         |
| 10 <sup>-4</sup>          | 25          | 0   | 0    | 3         | 77   |      |                |                |                |         |
|                           | 26          | 0   | 0    | 0         | 0    |      | 77             |                |                |         |
| 10 <sup>-5</sup>          | 27          | 0   | 0    | 0         | 0    |      | 0              | 0              | 0              |         |
|                           | 28          | 0   | 0    | 0         | 0    |      | 77             |                |                |         |
| 10 <sup>-6</sup>          | 29          | 0   | 0    | 0         | 0    |      | 0              | 0              | 0              |         |
|                           | 30          | 0   | 0    | 0         | 0    |      | 0 <sub>2</sub> | 0 <sub>2</sub> | 0 <sub>2</sub> |         |

10<sup>-5</sup> / 20.2 ml  
10<sup>5.7</sup> / 20.2 ml

APR 5 1954

Cypr 6207 - Mahoney - Term. Dilution  $10^{-6}$  of KP33 (38-16)

Paralyzed 6 days after inoculation

On 4/4/54 sections of road ground into 10% susp super-  
natant stored C-4-5

Inoculated Series 52 of 3/29/54<sup>29</sup>

| <u>Mat. Tested</u>       | <u>Tube</u> | $\frac{1}{6}$ | $\frac{1}{7}$ | $\frac{1}{8}$ | $\frac{1}{9}$ | $\frac{1}{10}$ | $\frac{1}{11}$ | $\frac{1}{12}$ | $\frac{1}{13}$ | Discard |
|--------------------------|-------------|---------------|---------------|---------------|---------------|----------------|----------------|----------------|----------------|---------|
| <u>Dil. &amp; Amount</u> | <u>770.</u> | 1             | 2             | 3             | 4             | 5              | 6              | 7              | 8              |         |
| 0.2 ml.<br>/ $10^{-1}$   | 51-31       | 2             | TH            |               |               |                |                |                |                |         |
|                          | 32          | 2             | TH            |               |               |                |                |                |                |         |
|                          | 33          | 0             | 0-1 TH        |               |               |                |                |                |                |         |
| $10^{-2}$                | 34          | 1             | TH            |               |               |                |                |                |                |         |
|                          | 35          | 1             | TH            |               |               |                |                |                |                |         |
|                          | 36          | 0-1           | TH            |               |               |                |                |                |                |         |
| $10^{-3}$                | 37          | 1             | TH            |               |               |                |                |                |                |         |
|                          | 38          | 1             | TH            |               |               |                |                |                |                |         |
|                          | 39          | 0             | TH            |               |               |                |                |                |                |         |
| $10^{-4}$                | 140         | 0             | 2             | TH            |               |                |                |                |                |         |
|                          | 141         | 0             | 1             | TH            |               |                |                |                |                |         |
|                          |             |               |               |               |               |                |                |                |                |         |
| $10^{-5}$                | 142         | 0             | 3             | TH            |               |                |                |                |                |         |
|                          | 143         | 0             | 0             | 0             | 0             | 0              |                | 0              | 0              |         |
| $10^{-6}$                | 144         | 0             | 0             | 0             | 0             | 0              |                | 0              | 0              |         |
|                          | 145         | 0             | 0             | 0             | 0             | 0              |                | 0              | 0              |         |

$10^{5.7}$  TC<sub>50</sub>/Gm.

APR 17 1954

Pyru. 6209 Strachony &amp; P-33

repeat

872 4/17/54 Sections of cord ground into 10% susp.  
centrifuged stored A-4-7

Tubes used Series 53 of 4/8/54 Series 54 of 4/8/54 Series 55  
 of 4/7/54 Series 56 of 4/8/54

| Mat. Tested                  | Tube   | 4/18 | 4/19 | 4/20 | 4/21 | 4/22      | 4/23 | 4/24 | 4/25 | 4/26 | disc |
|------------------------------|--------|------|------|------|------|-----------|------|------|------|------|------|
| Dil. + Amount                | 710    | 1    | 2    | 3    | 4    | 5         | 6    | 7    | 8    | 9    | card |
| 0.2 ml.<br>/10 <sup>-1</sup> | 53-630 |      | 0    | 4    |      |           |      |      |      |      |      |
|                              | 631    |      | 0    | 0    | 0    | 0         | 0    | 0    |      | 0    |      |
|                              | 55-632 |      | 0a   | 0a   | off  |           |      |      |      |      |      |
| 10 <sup>-2</sup>             | 54-633 |      | 0    | 0a   | 0a   | d         | d    | d    |      |      |      |
|                              | 56-634 |      | 0    | 0    | off  | specific? |      |      |      |      |      |
|                              | 635    |      | 0    | 0a   | off  | off       |      |      |      |      |      |
| 10 <sup>-3</sup>             | 636    |      | 0    | 0    | 0    | 0         | 0    | 0    |      | 0    |      |
|                              | 637    |      | 0    | 0    | 0    | 0         | 0    | 0    |      | 0    |      |
|                              | 638    |      | 0    | 0    | 0    | 0         | 0    | 0    |      | 0    |      |
| 10 <sup>-4</sup>             | 639    |      | 0    | 0    | 0    | 0         | 0    | 0    |      | 0    |      |
|                              | 640    |      | 0    | 0    | 0    | 0         | 0    | 0    |      | 0    |      |
| 10 <sup>-5</sup>             | 641    |      | 0    | 0    | 0    | 0         | 0    | 0    |      | 0    |      |
|                              | 642    |      | 0    | 0    | 0    | 0         | 0    | 0    |      | 0    |      |
| 10 <sup>-6</sup>             | 643    |      | 0    | 0    | 0    | 0         | 0    | 0    |      | 0    |      |
|                              | 644    |      | 0    | 0    | 0    | 0         | 0    | 0    |      | 0    |      |

Report

Cyn. 6209 *Frankliny* KP-33 (Homogeneity Series)

Strain A-4-7

Inoculation Series 65 of 4/19/54

| Inoc. Inoculum            | Inoc. No. | 1/28 | 1/29 | 1/30           | 4 | 5              | 5/3 | 5/5 |         |
|---------------------------|-----------|------|------|----------------|---|----------------|-----|-----|---------|
| Dil. & Amount             | No.       | 1    | 2    | 3              |   |                | 6   | 8   |         |
| 0.2 ml / 10 <sup>-1</sup> | 65-118    | 0    |      | <del>off</del> | } | }              | }   | }   |         |
|                           | 119       | 0    |      | <del>off</del> |   |                |     |     | discard |
|                           | 120       | 0    |      | <del>off</del> |   |                |     |     |         |
| 10 <sup>-2</sup>          | 121       | 0    |      | 0              |   | 0              | 0   | 0 ✓ |         |
|                           | 122       | 0    |      | 0              |   | <del>off</del> |     |     |         |
|                           | 123       | 0    |      | 3              |   | <del>off</del> |     |     |         |
| 10 <sup>-3</sup>          | 124       | 0    |      | 0              |   | 0              | 0   | 0 ✓ |         |
|                           | 125       | 0    |      | 0              |   | 0              | 0   | 0 ✓ |         |
|                           | 126       | 0    |      | 0              |   | 0              | 0   | 0 ✓ |         |
| 10 <sup>-4</sup>          | 127       | 0    |      | 0              |   | 0              | 0   | 0 ✓ |         |
|                           | 128       | 0    |      | 0              |   | 0              | 0   | 0 ✓ |         |
|                           | 129       | 0    |      | 0              |   | 0              | 0   | 0 ✓ |         |

10<sup>-2.3</sup> / 0.2 ml  
 10<sup>3</sup> TC<sub>50</sub> / gm



Cypr. 6213

Mahoney #P34 tube 38-19 ( $10^{-6}$  <sup>KP33</sup> <sub>pregny</sub>)

On 4/10/54 sections of lumber & electrical cord ground into 10% susp. centrifuged supernatant stored A-117

Inoculated Series 54 of 4/6/54

| Mat. Tested       | Tube   | #18 | #19 | #20 | #21 | #22 | #23 | #24 | #25 | #26 | discard |
|-------------------|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|---------|
| Dil. & Amount     | 770.   | 1   | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   |         |
| 0.2ml / $10^{-1}$ | 54-675 |     | 2   | 174 |     |     |     |     |     |     |         |
|                   | 676    |     | 174 |     |     |     |     |     |     |     |         |
|                   | 677    |     | 2   | 174 |     |     |     |     |     |     |         |
| $10^{-2}$         | 678    |     | 4   |     |     |     |     |     |     |     |         |
|                   | 679    |     | 4   |     |     |     |     |     |     |     |         |
|                   | 680    |     | 4   |     |     |     |     |     |     |     |         |
| $10^{-3}$         | 681    |     | 0   | 174 |     |     |     |     |     |     |         |
|                   | 682    |     | 0   | 1   | 174 |     |     |     |     |     |         |
|                   | 683    |     | 0-1 | 174 |     |     |     |     |     |     |         |
| $10^{-4}$         | 684    |     | 0   | 0   | 0   | 0   | 0   | 0   |     | 0   |         |
|                   | 685    |     | 0   | 0   | 0   | 0   | 0   | 0   |     | 0   |         |
|                   | 6      |     |     |     |     |     |     |     |     |     |         |
| $10^{-5}$         | 686    |     | 0   | 0   | 0   | 0   | 0   | 0   |     | 0   |         |
|                   | 687    |     | 0   | 0   | 0   | 0   | 0   | 0   |     | 0   |         |
| $10^{-6}$         | 688    |     | 0   | 0   | 0   | 0   | 0   | 0   |     | 0   |         |
|                   | 689    |     | 0   | 0   | 0   | 0   | 0   | 0   |     | 0   |         |

$10^{-35}$  / 0.2ml or  $10^{4.2}$  tubes / Gram

APR 8 1954

Cypr. 6219 - Mahoney KP 34 - subseed lot of 12-11-53

Paralyzed 10 days after intracerebral inoculation

On 4/8/54 sections of road ground into 10% susp. and inf. supernatant stored A-11-8

Subseeded Series 52 of 3/20/54

| <u>Mat. Tested</u>        | <u>Tube No.</u> | <u>4/9</u> | <u>4/10</u> | <u>4/11</u> | <u>4/12</u> | <u>4/13</u> | <u>4/14</u> | <u>4/15</u> | <u>4/16</u> |
|---------------------------|-----------------|------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| <u>Dil. &amp; Amount</u>  |                 | 1          | 2           | 3           | 4           | 5           | 6           | 7           | 8           |
| 0.2 ml / 10 <sup>-1</sup> | 52-131          | 0          | 0           |             | OH          |             |             |             |             |
|                           | 132             | 0          | 0           |             | 4           |             |             |             |             |
|                           | 133             | 0          | 0           |             | 7H          |             |             |             |             |
| 10 <sup>-2</sup>          | 134             | 0          | 3           |             | OH          |             |             |             |             |
|                           | 135             | 0          | 0           |             | OH          |             |             |             |             |
|                           | 136             | 0          | 1           |             | OH          |             |             |             |             |
| 10 <sup>-3</sup>          | 137             | 0          | 0           |             | 7H          |             |             |             |             |
|                           | 138             | 0          | 0           |             | OH          |             |             |             |             |
|                           | 139             | 0          | 0           |             | 7H          |             |             |             |             |
| 10 <sup>-4</sup>          | 140             | 0          | 0           |             | 0a add.     |             |             |             |             |
|                           | 141             | 0          | 23          |             | 7H          |             |             |             |             |
| 10 <sup>-5</sup>          | 142             | 0          | 0           |             | 0a          | 0a          | 0a          | 0a          | 0a          |
|                           | 143             | 0          | 0           |             | 0           | 0           | 0           | 0           | 0           |
| 10 <sup>-6</sup>          | 144             | 0          | 0           |             | 0           | 0           | 0           | 0           | 0           |
|                           | 145             | 0          | 0           |             | 0           | 0           | 0           | 0           | 0           |

Discard

10<sup>4.7</sup> TCID<sub>50</sub>/gmr

Cyre. 6232 - Mahoney KP 33 - Intraspinal

This monkey was found dead about 42 hours after inoculation of  $10^{3.2} \text{TCID}_{50}$  - Purpose - how much virus can be detected at inoculated site?

On 4/7/54 sections of cord ground into  $10\% \text{ susp}$  centrifuged supernatant stored A-4-5

Inoculum Serials 52 of 3/30/54

| <u>Inoc. Tested</u>      | <u>Tube</u> | $\frac{1}{8}$ | $\frac{1}{9}$ | $\frac{1}{10}$ | $\frac{1}{11}$ | $\frac{1}{12}$ | $\frac{1}{13}$ | $\frac{1}{14}$ | $\frac{1}{16}$ |
|--------------------------|-------------|---------------|---------------|----------------|----------------|----------------|----------------|----------------|----------------|
| <u>Dil. &amp; Amount</u> | <u>No.</u>  | 1             | 2             | 3              | 4              | 5              | 6              | 7              | 8              |
| 0.2 ml. / $10^{-1}$      | 52-16       | 1             | TH            |                |                |                |                |                |                |
|                          | 17          | 1             | TH            |                |                |                |                |                |                |
|                          | 18          | 2             | TH            |                |                |                |                |                |                |
| $10^{-2}$                | 19          | 1             | TH            |                |                |                |                |                |                |
|                          | 20          | 1             | 4             |                |                |                |                |                |                |
|                          | 21          | 1             | TH            |                |                |                |                |                |                |
| $10^{-3}$                | 22          | 0             | 0             | 4              |                | $\frac{1}{12}$ |                |                |                |
|                          | 23          | 0             | 0             | 3              |                | TH             |                |                |                |
|                          | 24          | 0             | 2             | TH             |                |                |                |                |                |
| $10^{-4}$                | 25          | 0             | 0             | 0              |                | 0              | 0              | 0              | 0              |
|                          | 26          | 0             | 0             | 0              |                | TH             |                |                |                |
| $10^{-5}$                | 27          | 0             | 0             | 0              |                | 0              | 0              | 0              | 0              |
|                          | 28          | 0             | 0             | 34             |                | TH             |                |                |                |
| $10^{-6}$                | 29          | 0             | 0             | 0              |                | 0              | 0              | 0              | 0              |
|                          | 30          | 0             | 0             | 0              |                | 0              | 0              | 0              | 0              |

Discard

|   |   |   |   |
|---|---|---|---|
| 3 | 0 | 5 | 0 |
| 1 | 1 | 2 | 1 |
| 1 | 1 | 1 | 2 |
| 0 | 2 | 0 | 4 |

$\frac{67}{33}$       $\frac{67-50}{34} = \frac{17}{34} = 0.5$

$10^{-4.5} / 0.2 \text{ ml}$   
 $10^{-5.2} \text{ TCID}_{50} / \text{gram}$

Spec. 6733 Zumbal Cord  
Mat. 4933 10<sup>-3</sup> Spiral

On 4/9/54 sections of cord ground into 10% susp.  
 centrifuged supernatant stored A-4-7

Inoculated Series

| Mat. Tested                | Tube   | 1/1 | 1/2 | 1/3 | 1/4 | 1/5 | 1/6 | 1/7 | 1/8 |
|----------------------------|--------|-----|-----|-----|-----|-----|-----|-----|-----|
| Dil. & Comment             | No.    | 1   | 2   | 3   | 4   | 5   | 6   | 7   | 8   |
| 2.2 ml. / 10 <sup>-1</sup> | 58-46  |     |     |     |     |     |     |     |     |
|                            | 55-601 |     |     |     |     |     |     |     |     |
|                            | 602    |     |     |     |     |     |     |     |     |
| 10 <sup>-2</sup>           | 603    |     |     |     |     |     |     |     |     |
|                            | 604    |     |     |     |     |     |     |     |     |
|                            | 604H   |     |     |     |     |     |     |     |     |
| 10 <sup>-3</sup>           | 56-605 |     |     |     |     |     |     |     |     |
|                            | 606    |     |     |     |     |     |     |     |     |
|                            | 607    |     |     |     |     |     |     |     |     |
| 10 <sup>-4</sup>           | 608    | 0   | 0   | 3   | 1/1 |     |     |     |     |
|                            | 609    | 0-? | 4   |     |     |     |     |     |     |
| 10 <sup>-5</sup>           | 610    | 0   | 0   | 0   | 0   | 0   | 0   | 0   |     |
|                            | 611    | 0   | 0   | 0   | 0   | 0   | 0   | 0   |     |
| 10 <sup>-6</sup>           | 612    | 0   | 0   | 0   | 0   | 0   | 0   | 0   |     |
|                            | 613    | 0   | 0   | 0   | 0   | 0   | 0   | 0   |     |

discard

10<sup>-4.5</sup> / 0.2 ml  
 10<sup>5.2</sup> TCPSO

STANDARD B & P "NOTEAR"

"NOTEAR"

APR 17 1954

Cyr. 6233 Cervine Loss

discarded

Makomy KP-33  $10^{-3}$  Spinal

| Total Tested  | Tube | 1/8 | 1/9 | 1/20 | 1/21 | 1/22 | 1/23 | 1/24 | 1/25 | 1/26 |
|---------------|------|-----|-----|------|------|------|------|------|------|------|
| Dil. & Amount | 70.  | 1   | 2   | 3    | 4    | 5    | 6    | 7    | 8    | 9    |

|                         |        |   |   |               |   |   |   |   |    |    |
|-------------------------|--------|---|---|---------------|---|---|---|---|----|----|
| $0.27ml./$<br>$10^{-1}$ | 52-615 | 0 | 2 | <del>18</del> |   |   |   |   |    |    |
|                         | 616    | 0 | 0 | 0             | 0 | 0 | 0 | 0 | 0  | 0  |
|                         | 617    | 0 | 0 | 0             | 0 | 0 | 0 | 0 | 0  | 0  |
| $10^{-2}$               | 618    | 0 | 0 | 0             | 0 | 0 | 0 | 0 | 0  | 0  |
|                         | 619    | 0 | 0 | 0             | 0 | 0 | 0 | 0 | 0  | 0  |
|                         | 620    | 0 | 0 | 0             | 0 | 0 | 0 | 0 | 0  | 0  |
| $10^{-3}$               | 621    | 0 | 0 | 0             | 0 | 0 | 0 | 0 | 0  | 0  |
|                         | 622    | 0 | 0 | 0             | 0 | 0 | 0 | 0 | 0  | 0  |
|                         | 623    | 0 | 0 | 0             | 0 | 0 | 0 | 0 | 0  | 0  |
| $10^{-4}$               | 624    | 0 | 0 | 0             | 0 | 0 | 0 | 0 | 0  | 0  |
|                         | 625    | 0 | 0 | 0             | 0 | 0 | 0 | 0 | 0  | 0  |
| $10^{-5}$               | 626    | 0 | 0 | 0             | 0 | 0 | 0 | 0 | 0  | 0  |
|                         | 627    | 0 | 0 | 0             | 0 | 0 | 0 | 0 | 0  | 0  |
| $10^{-6}$               | 628    | 0 | 0 | 0             | 0 | 0 | 0 | 0 | 0a | 0a |
|                         | 629    | 0 | 0 | 0             | 0 | 0 | 0 | 0 | 0a | 0a |

discard

Cypr. 6238 - Mahoney, KP33 - Spinal

This monkey was inoculated on Apr 5, with 0.1 ml of  $10^{-2}$  virus ( $10^{4.2}$  TC<sub>50</sub>) in midlumbar region. About 67 hours later it exhibited extensive paralysis of entire left lower extremity

1.2 cm. of midlumbar removed with separate instruments  
 1.7 cm. of midcervical cord " " " " "

On 4/8/54 section of lumbar cord & of cervical cord ground separately into 10% susp. centrifuged stored A-11-8

Tubes used Series 52 of 3/30/54

Titration Cervical cord discarded

| <u>Mat. Tested</u>  | <u>Tube No.</u> | <u>1/9</u> | <u>1/10</u> | <u>1/11</u> | <u>1/12</u> | <u>1/13</u> | <u>1/14</u> | <u>1/15</u> | <u>1/16</u> |
|---------------------|-----------------|------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| 1.2 ml. / $10^{-1}$ | 52-101          | 0          | 0           | 0           | 0           | 0           | 0           | 0           | 0           |
|                     | 102             | 0          | 0           | 0           | 0           | 0           | 0           | 0           | 0           |
|                     | 103             | 0          | 0           | 0           | 0           | 0           | 0           | 0           | 0           |
| $10^{-2}$           | 52-104          | 0          | 0           | 0           | 0           | 0           | 0           | 0           | 0           |
|                     | 52-105          | 0          | 0           | 0           | 0           | 0           | 0           | 0           | 0           |
|                     | 106             | 0          | 0           | 0           | 0           | 0           | 0           | 0           | 0           |
| $10^{-3}$           | 107             | 0          | 0           | 0           | 0           | 0           | 0           | 0           | 0           |
|                     | 108             | 0          | 0           | 0           | 0           | 0           | 0           | 0           | 0           |
|                     | 109             | 0          | 0           | 0           | 0           | 0           | 0           | 0           | 0           |
| $10^{-4}$           | 110             | 0          | 0           | 0           | 0           | 0           | 0           | 0           | 0           |
|                     | 111             | 0          | 0           | 0           | 0           | 0           | 0           | 0           | 0           |
| $10^{-5}$           | 112             | 0          | 0           | 0           | 0           | 0           | 0           | 0           | 0           |
|                     | 113             | 0          | 0           | 0           | 0           | 0           | 0           | 0           | 0           |
| $10^{-6}$           | 114             | 0          | 0           | 0           | 0           | 0           | 0           | 0           | 0           |
|                     | 115             | 0          | 0           | 0           | 0           | 0           | 0           | 0           | 0           |

- best for lumbar

Expt. 6238

Titration Zumbal Cord

| <u>Mat. Tested</u><br><u>Dil. &amp; Amount</u> | <u>Tube</u><br><u>No.</u> | $\frac{1}{9}$ | $\frac{1}{10}$ | $\frac{1}{11}$ | $\frac{1}{12}$ | $\frac{1}{13}$ | $\frac{1}{14}$ | $\frac{1}{15}$ | $\frac{1}{16}$ |
|--|---------------------------|---------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| 0.2 ml / $10^{-1}$                             | 52-116                    | 0             | 0              |                | 2              | 2              | 2              | 2              | 2              |
|  | 117                       | 0             | 0              |                | 2              | "              | "              | "              | "              |
|  | 118                       | 0             | 0              |                | 2              | "              | "              | "              | "              |
| $10^{-2}$                                      | 119                       | 0             | 0              |                | 0              | 2              | 2              | 2              | 2              |
|  | 120                       | 0             | 0              |                | 0              | 4              |                |                |                |
|  | 121                       | 0             | 0              |                | 4              |                |                |                |                |
| $10^{-3}$                                      | 122                       | 0             | 0              |                | 0              | 0              | 0              | 0              | 0              |
|  | 123                       | 0             | 0              |                | 0              | 0              | 0              | 0              | 0              |
|  | 124                       | 0             | 0              |                | 0              | 0-1            | 4              |                |                |
| $10^{-4}$                                      | 125                       | 0             | 0              |                | 0              | 0              | 0              | 0              | 0              |
|  | 126                       | 0             | 0              |                | 0              | 0              | 0              | 0              | 0              |
| $10^{-5}$                                      | 127                       | 0             | 0              |                | 0              | 0              | 0              | 0              | 0              |
|  | 128                       | 0             | 0              |                | 0a             | 0a             | 0a             | 0a             | 0a             |
| $10^{-6}$                                      | 129                       | 0             | 0              |                | 0              | 0              | 0              | 0              | 0              |
|  | 130                       | 0             | 0              |                | 0              | 0              | 0              | 0              | 0              |

discard

$10^{-2.8} / 0.2 \text{ ml}$

$10^{3.5} \text{ TC}_{50} / \text{Gm}$

Cypr. 6260 Zumbae Cord  
 Y-5K + F-51 10<sup>-1</sup> Spinal

On 4/9/54 sections of cord ground into 10% susp. centrifuged  
 supernatant stored A-4-7 siliconed vent tube

Re-tested Tins 54 of 4/6/54

| Test Treated | Tube | #18 | #19 | #20 | #21 | #22 | #23 | #24 | #25 | #26 | discard |
|--------------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|---------|
| Dil. Amount  | 770  | 1   | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   |         |

|                           |        |     |     |   |   |   |   |   |   |  |  |
|---------------------------|--------|-----|-----|---|---|---|---|---|---|--|--|
| 0.2 ml / 10 <sup>-1</sup> | 54 645 | 174 |     |   |   |   |   |   |   |  |  |
|                           | 646    | 174 |     |   |   |   |   |   |   |  |  |
|                           | 647    | 174 |     |   |   |   |   |   |   |  |  |
| 10 <sup>-2</sup>          | 648    | 174 |     |   |   |   |   |   |   |  |  |
|                           | 649    | 174 |     |   |   |   |   |   |   |  |  |
|                           | 650    | 174 |     |   |   |   |   |   |   |  |  |
| 10 <sup>-3</sup>          | 651    | 3   | 174 |   |   |   |   |   |   |  |  |
|                           | 652    | 0   | 174 |   |   |   |   |   |   |  |  |
|                           | 653    | 0   | 174 |   |   |   |   |   |   |  |  |
| 10 <sup>-4</sup>          | 654    | 0-1 | 174 |   |   |   |   |   |   |  |  |
|                           | 655    | 0   | 0   | 0 | 0 | 0 | 0 | 0 | 0 |  |  |
| 10 <sup>-5</sup>          | 656    | 0   | 0   | 0 | 0 | 0 | 0 | 0 | 0 |  |  |
|                           | 657    | 0   | 0   | 0 | 0 | 0 | 0 | 0 | 0 |  |  |
| 10 <sup>-6</sup>          | 658    | 0   | 0   | 0 | 0 | 0 | 0 | 0 | 0 |  |  |
|                           | 659    | 0   | 0   | 0 | 0 | 0 | 0 | 0 | 0 |  |  |

10<sup>-4</sup> / 0.2 ml  
 or 10<sup>4.7</sup> TC<sub>50</sub> / Gm

APR 17 1954

Ogen 6260 Cervical Cord - discarded

Y-5K #P-51 10<sup>-1</sup> Spinal

| Mat. Tested                  | Tube    | 1/18 | 1/19 | 1/20 | 1/21 | 1/22 | 1/23 | 1/24 | 1/25 | 1/26 | discard |
|------------------------------|---------|------|------|------|------|------|------|------|------|------|---------|
| Dil. Amount                  | 770.    | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    |         |
| 0.27ml.<br>/10 <sup>-1</sup> | 34. 660 | 0    | 0    | cont |      |      |      |      |      |      |         |
|                              | 661     | 0    | 0    | 0    | 0    | 0    | 0    |      |      | 0    |         |
|                              | 662     | 0    | 0    | 0    | 0    | 0    | 0    |      |      | 0    |         |
| 10 <sup>-2</sup>             | 663     | 0    | 0    | 0    | 0    | 0    | 0    |      |      | 0    |         |
|                              | 664     | 0    | 0    | 0    | 0    | 0    | 0    |      |      | 0    |         |
|                              | 665     | 0    | 0    | 0    | 0    | 0    | 0    |      |      | 0    |         |
| 10 <sup>-3</sup>             | 666     | 0    | 0    | 0    | 0    | 0    | 0    |      |      | 0    |         |
|                              | 667     | 0    | 0    | 0    | 0    | 0    | 0    |      |      | 0    |         |
|                              | 668     | 0    | 0    | 0    | 0    | 0    | 0    |      |      | 0    |         |
| 10 <sup>-4</sup>             | 669     | 0    | 0    | 0    | 0    | 0    | 0    |      |      | 0    |         |
|                              | 670     | 0    | 0    | 0    | 0    | 0    | 0    |      |      | 0    |         |
|                              | -       |      |      |      |      |      |      |      |      |      |         |
| 10 <sup>-5</sup>             | 671     | 0    | 0    | 0    | 0    | 0    | 0    |      |      | 0    |         |
|                              | 672     | 0    | 0    | 0    | 0    | 0    | 0    |      |      | 0    |         |
|                              | 673     | 0    | 0    | 0    | 0    | 0    | 0    |      |      | 0    |         |
| 10 <sup>-6</sup>             | 674     | 0    | 0    | 0    | 0    | 0    | 0    |      |      | 0    |         |

April 12, 1954

Cyr. 6275 Lumbar Cord - Leon Spine

~~Leon~~

Leon, KP34 - Intraspinal  $10^{-2}$

On 4/11/54 monkey sacrificed

On 4/12/54 sections of lumbar cord ground into 10% susp. centrifuged supernatant stored A-8-4

Tube used Series 53 of 4/3/54

| Mat. Tested            | Tube  | 4/3 | 4/4 | 4/5 | 4/6 | 4/7 | 4/19 | 4/20 | 4/21 | 4/22 | discard |
|------------------------|-------|-----|-----|-----|-----|-----|------|------|------|------|---------|
| Dil + Amount           | 770.  | 1   | 2   | 3   | 4   | 5   | 6    | 8    | 8    | 10   |         |
| 0.27ml.<br>/ $10^{-1}$ | 33-95 | 0   | 0   | 0   | 0   | 0   | 0    | 0    | 0    | 0    |         |
|                        | 96    | 0   | 0   | 0   | 1   | 4   |      |      |      |      |         |
|                        | 97    | 0   | 0   | 4   |     |     |      |      |      |      |         |
| $10^{-2}$              | 98    | 0   | 0   | 0   | 0   | 0   | 0    | 0    | 0    | 0    |         |
|                        | 99    | 0   | 0   | 0   | 0   | 0   | 0    | 0    | 0    | 0    |         |
|                        | 100   | 0   | 0   | 0   | 0   | 0   | 0    | 0    | 0    | 0    |         |
| $10^{-3}$              | 101   | 0   | 0   | 0   | 0   | 0   | 0    | 0    | 0    | 0    |         |
|                        | 102   | 0   | 0   | 0   | 0   | 0   | 0    | 0    | 0    | 0    |         |
|                        | 103   | 0   | 0   | 0   | 0   | 0   | 0    | 0    | 0    | 0    |         |
| $10^{-4}$              | 104   | 0   | 0   | 0   | 0   | 0   | 0    | 0    | 0    | 0    |         |
|                        | 105   | 0   | 0   | 0   | 0   | 0   | 0    | 0    | 0    | 0    |         |
| $10^{-5}$              | 106   | 0   | 0   | 0   | 0   | 0   | 0    | 0    | 0    | 0    |         |
|                        | 107   | 0   | 0   | 0   | 0   | 0   | 0    | 0    | 0    | 0    |         |
| $10^{-6}$              | 108   | 0   | 0   | 0   | 0   | 0   | 0    | 0    | 0    | 0    |         |
|                        | 109   | 0   | 0   | 0   | 0   | 0   | 0    | 0    | 0    | 0    |         |

Repeat

See other side for cervical

April 12, 1954

Cyto. 6775 cervical cord - discarded

Zone A-34 Intraspinal  $10^{-2}$

On 4/11/54 monkey sacrificed

On 4/12/54 Section of cervical cord ground into  $10\%$  susp.  
untitrated supernatant stored A-8-4

Tube Test Series 53 of 4/12/54

| Dist. / Dose                | Tube   | 1/2 | 1/4 | 1/5 | 1/6 | 1/7 | 1/8 | 1/9 | 1/10 | 1/21 | 1/22 | discard |
|-----------------------------|--------|-----|-----|-----|-----|-----|-----|-----|------|------|------|---------|
|                             | 770.   | 1   | 2   | 3   | 4   | 5   | 6   | 7   | 8    | 9    | 10   |         |
| $0.2 \text{ ml.} / 10^{-1}$ | 53-110 | 0   | 0   | 0   | 0   | 0   |     | 0   | 0    | 0    | 0    |         |
|                             | 111    | 0   | 0   | 0   | 0   | 0   |     | 0   | 0    | 0    | 0    |         |
|                             | 112    | 0   | 0   | 0   | 0   | 0   |     | 0   | 0    | 0    | 0    |         |
| $10^{-2}$                   | 113    | 0   | 0   | 0   | 0   | 0   |     | 0   | 0    | 0    | 0    |         |
|                             | 114    | 0   | 0   | 0   | 0   | 0   |     | 0   | 0    | 0    | 0    |         |
|                             | 115    | 0   | 0   | 0   | 0   | 0   |     | 0   | 0    | 0    | 0    |         |
| $10^{-3}$                   | 116    | 0   | 0   | 0   | 0   | 0   |     | 0   | 0    | 0    | 0    |         |
|                             | 117    | 0   | 0   | 0   | 0   | 0   |     | 0   | 0    | 0    | 0    |         |
|                             | 118    | 0   | 0   | 0   | 0   | 0   |     | 0   | 0    | 0    | 0    |         |
| $10^{-4}$                   | 119    | 0   | 0   | 0   | 0   | 0   |     | 0   | 0    | 0    | 0    |         |
|                             | 120    | 0   | 0   | 0   | 0   | 0   |     | 0   | 0    | 0    | 0    |         |
| $10^{-5}$                   | 121    | 0   | 0   | 0   | 0   | 0   |     | 0   | 0    | 0    | 0    |         |
|                             | 122    | 0   | 0   | 0   | 0   | 0   |     | 0   | 0    | 0    | 0    |         |
| $10^{-6}$                   | 123    | 0   | 0   | 0   | 0   | 0   |     | 0   | 0    | 0    | 0    |         |
|                             | 124    | 0   | 0   | 0   | 0   | 0   |     | 0   | 0    | 0    | 0    |         |

Leon

Repeat Cycle 6275 Zumbau Cord

STAND A-8-4

Tubes Yucca Series 61 of 4/14/54

| Virus Dilution | Tube  | 1             | 2             | 3             | 4              | 5              | 6              | 7              | 8              | 9              |
|----------------|-------|---------------|---------------|---------------|----------------|----------------|----------------|----------------|----------------|----------------|
| Amount         | Tn.   | $\frac{1}{2}$ | $\frac{1}{2}$ | $\frac{1}{4}$ | $\frac{1}{25}$ | $\frac{1}{25}$ | $\frac{1}{25}$ | $\frac{1}{25}$ | $\frac{1}{25}$ | $\frac{1}{25}$ |
| 0.2 ml.        | 61-46 | 0             | 0             | 0-1           | <del>0</del>   | <del>0</del>   |                |                |                |                |
| $10^{-1}$      | 47    | 0             | 0             | 1             | <del>0</del>   | <del>0</del>   |                |                |                |                |
| $10^{-2}$      | 48    | 0             | 0             | 0             | 0              | 0              | 3-4            | <del>0</del>   |                |                |
|                | 49    | 0             | 0             | 0             | 0              | 0              | 0              | 0              |                |                |
| $10^{-3}$      | 50    | 0             | 0             | 0             | 0              | 0              | 0              | 0              |                |                |
|                | 51    | 0             | 0             | 0             | 0              | 0              | 0              | 0              |                |                |
| $10^{-4}$      | 52    | 0             | 0             | 0             | 0              | 0              | 0              | 0              |                |                |
|                | 53    | 0             | 0             | 0             | 0              | 0              | 0              | 0              |                |                |
| $10^{-5}$      | 54    | 0             | 0             | 0             | 0              | 0              | 0              | 0              |                |                |
|                | 55    | 0             | 0             | 0             | 0              | 0              | 0              | 0              |                |                |

Discard

 $10^{-2} / 0.2 \text{ ml}$  or  $10^{2.7} \text{ TC}_{50} / \text{gram}$

Spec. 6283 Lumbar Cord  
Brunkede Orders Human Spinal

On 4/8/54 sections of cord ground into 10% susp. centrifuged  
 supernatant stored A-4-7

Tubes Used Series

| <u>Quant. Tested</u>         | <u>Tube</u> | <u>#18</u> | <u>#19</u> | <u>#20</u> | <u>#21</u> | <u>#22</u> | <u>#23</u> | <u>#24</u> | <u>#25</u> | <u>#26</u> | <u>#27</u> | <u>#28</u> |
|------------------------------|-------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| <u>Dil. &amp; Amount</u>     | <u>70</u>   | <u>1</u>   | <u>2</u>   | <u>3</u>   | <u>4</u>   | <u>5</u>   | <u>6</u>   | <u>7</u>   | <u>8</u>   | <u>9</u>   | <u>10</u>  | <u>11</u>  |
| 2.27ml.<br>/10 <sup>-1</sup> | 58-16       |            | 0          | 0          | 0          | 0          | 0          | 0          |            | 0          | 0          | 0          |
|                              | 17          |            | 0          | 0          | 0          | 0          | 0          | 0          |            | 0          | 2          | 1/2        |
|                              | 18          |            | 0          | 0          | 0          | 0          | 0          | 0          |            | 0-?        | 1/2        | 1/2        |
| 10 <sup>-2</sup>             | 19          |            | 0          | 0          | 0          | 0          | 0          | 0          |            | 0          | 0          | 0          |
|                              | 20          |            | 0          | 0          | 0          | 0          | 0          | 0          |            | 0          | 0          | 0          |
|                              | 21          |            | 0          | 0          | 0          | 0          | 0          | 0-1        |            | 1/2        |            |            |
| 10 <sup>-3</sup>             | 22          |            | 0          | 0          | 0          | 0          | 0          | 0          |            | 2          | 1/2        |            |
|                              | 23          |            | 0          | 0          | 0          | 0          | 0          | 0          |            | 0          | 0          | 0          |
|                              | 24          |            | 0          | 0          | 0          | 0          | 0          | 0          |            | 0          | 0          | 0          |
| 10 <sup>-4</sup>             | 25          |            | 0          | 0          | 0          | 0          | 0          | 0          |            | 0          | 0          | 0          |
|                              | 26          |            | 0          | 0          | 0          | 0          | 0          | 0          |            | 0          | 0          | 0          |
| 10 <sup>-5</sup>             | 27          |            | 0          | 0          | 0          | 0          | 0          | 0          |            |            |            |            |
|                              | 28          |            | 0          | 0          | 0          | 0          | 0          | 0          |            | 0          | 0          | 0          |
| 10 <sup>-6</sup>             | 29          |            | 0          | 0          | 0          | 0          | 0          | 0          |            | 0          | 0          | 0          |
|                              | 30          |            | 0          | 0          | 0          | 0          | 0          | 0          |            | 0          | 0          | 0          |

(over)

APR 17 1954

Pyro. 6283 Cervical Cord - Discard  
 Brucella Index Human - Spinal

| Mat. Tested                  | Tube  | 4/18 | 4/19 | 4/20 | 4/21 | 4/22 | 4/23 | 4/24 | 4/25 | 4/26 | 4/28 |    |
|------------------------------|-------|------|------|------|------|------|------|------|------|------|------|----|
| Dil. Amount                  | 770.  | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   | 11 |
| 0.2 ml.<br>/10 <sup>-1</sup> | 58.31 |      | 0    | 0    | 0    | 0    | 0    | 0    |      | 0    | 0-9  | 0  |
|                              | 32    |      | 0    | 0    | 0    | 0    | 0    | 0    |      | 0    | 0    | 0  |
|                              | 33    |      | 0    | 0    | 0    | 0    | 0    | 0    |      | 0    | 0    | 0  |
| 10 <sup>-2</sup>             | 34    |      | 0    | 0    | 0    | 0    | 0    | 0    |      | 0    | 0    | 0  |
|                              | 35    |      | 0    | 0    | 0    | 0    | 0    | 0    |      | 0    | 0    | 0  |
|                              | 36    |      | 0    | 0    | 0    | 0    | 0    | 0    |      | 0    | 0    | 0  |
| 10 <sup>-3</sup>             | 37    |      | 0    | 0    | 0    | 0    | 0    | 0    |      | 0    | 0    | 0  |
|                              | 38    |      | 0    | 0    | 0    | 0    | 0    | 0    |      | 0    | 0    | 0  |
|                              | 39    |      | 0    | 0    | 0    | 0    | 0    | 0    |      | 0    | 0    | 0  |
| 10 <sup>-4</sup>             | 40    |      | 0    | 0    | 0    | 0    | 0    | 0    |      | 0    | 0    | 0  |
|                              | 41    |      | 0    | 0    | 0    | 0    | 0    | 0    |      | 0    | 0    | 0  |
| 10 <sup>-5</sup>             | 42    |      | 0    | 0    | 0    | 0    | 0    | 0    |      | 0    | 0    | 0  |
|                              | 43    |      | 0    | 0    | 0    | 0    | 0    | 0    |      | 0    | 0    | 0  |
| 10 <sup>-6</sup>             | 44    |      | 0    | 0    | 0    | 0    | 0    | 0    |      | 0    | 0    | 0  |
|                              | 45    |      | 0    | 0    | 0    | 0    | 0    | 0    |      | 0    | 0    | 0  |

April 23, 1954

Report

Cypr. 6283 Lumbos Cord

Brushlike Bodies Human - Spinal

A-4-7

| Dil. & Amount             | Tube # | Tube # |   |   |    |    |    |    |    | 5/1 | 5/3 | discards |
|---------------------------|--------|--------|---|---|----|----|----|----|----|-----|-----|----------|
|                           |        | 1      | 2 | 3 | 4  | 5  | 6  | 7  | 8  |     |     |          |
| 0.1 ml / 10 <sup>-1</sup> | 13-1   | 0      |   | 0 | 0  | 0a |    | 0a |    | 0a  |     |          |
|                           | 2      | 0      |   | 0 | 0  | 0a |    | 0a |    | 0a  |     |          |
|                           | 3      | 0      |   | 0 | 0  | 0a |    | 0a |    | 0a  |     |          |
| 0.2 ml / 10 <sup>-2</sup> | 4      | 0      |   | 0 | 0  | 3? |    | 0a |    | 0a  |     |          |
|                           | 5      | 0      |   | 0 | 0  | 4  |    | 0a |    | 0a  |     | Discard  |
|                           | 6      | 0      |   | 0 | 2  | 4  |    | 0a |    | 0a  |     |          |
| 0.2 ml / 10 <sup>-3</sup> | 7      | 0      |   | 0 | 2? | 3  |    | 0a |    | 0   | 0   |          |
|                           | 8      | 0      |   | 0 | 0  | 0  |    | 0a |    | 0   | 0   |          |
|                           | 9      | 0      |   | 0 | 4  | 0a | 0a |    | 0a |     | 0a  | Discard  |

like only 25 tubes

Cypr. 6283 Cervical Cord

Brushlike Bodies Human - Spinal

A-4-7

| Dil. Amount               | Tube # | Tube # |   |   |   |    |   |    |   | 5/1 |
|---------------------------|--------|--------|---|---|---|----|---|----|---|-----|
|                           |        | 1      | 2 | 3 | 4 | 5  | 6 | 7  | 8 |     |
| 0.1 ml / 10 <sup>-1</sup> | 63-10  | 0      |   | 0 | 0 | 0a |   | 0a |   | 0a  |
|                           | 11     | 0      |   | 0 | 0 | 0a |   | 0a |   | 0a  |
|                           | 12     | 0      |   | 0 | 0 | 0a |   | 0a |   | 0a  |
| 0.2 ml / 10 <sup>-2</sup> | 13     | 0      |   | 0 | 0 | 0  |   | 0  |   | 0   |
|                           | 14     | 0      |   | 0 | 0 | 0  |   | 0  |   | 0   |
|                           | 15     | 0      |   | 0 | 0 | 0  |   | 0  |   | 0   |
| 0.2 ml / 10 <sup>-2</sup> | 16     | 0      |   | 0 | 0 | 0  |   | 0  |   | 0   |
|                           | 17     | 0      |   | 0 | 0 | 0  |   | 0  |   | 0   |
|                           | 18     | 0      |   | 0 | 0 | 0  |   | 0a |   | 0   |

Oye. 6341 Lumbal Cord  
 Montgomery Fractional-Spiral

On 4/24/54 sections of lumbal & cervical cord ground  
 separately into 10% susp. supernatant stored  
0-4-4

Tubes Used - Series 63 of 4/16/54

Mat. Tested Tube #25 #26 #27 #28 #29 #30 #3  
 Dil. & Amount 770. 1 2 3 4 5 6 7 9

|                              |        |    |    |    |           |    |
|------------------------------|--------|----|----|----|-----------|----|
| 0.2 ml.<br>/10 <sup>-1</sup> | 63-101 | 0  | 1  | TH | } Discard |    |
|                              | 102    | 1? | 2  | 2  |           |    |
|                              | 103    | 2  | TH |    |           |    |
| 10 <sup>-2</sup>             | 104    | 1  | 3  | TH |           |    |
|                              | 105    | 2  | 3  | TH |           |    |
|                              | 106    | 0? | 3  | TH |           |    |
| 10 <sup>-3</sup>             | 107    | 0  | 3  | TH |           |    |
|                              | 108    | 0  | 0  | 2  |           |    |
|                              | 109    | 0  | 2  | TH |           |    |
| 10 <sup>-4</sup>             | 110    | 0  | 0  | 0  | 0         | 0  |
|                              | 111    | 0  | 0  | 0  | 0         | 0d |
| 10 <sup>-5</sup>             | 112    | 0  | 0  | 0  | 0d        | 0  |
|                              | 113    | 0  | 0  | 0  | 0         | 0d |
| 10 <sup>-6</sup>             | 114    | 0  | 0  | 0  | 0         | 0  |
|                              | 115    | 0  | 0  | 0  | 0         | 0  |

10<sup>-3.5</sup> / 0.2 ml

10<sup>4.2</sup> TC D<sub>70</sub> / 6ml

APR 24 1954

Cyto. 6341 Cervical Cord ~~Discard~~  
 Montgomery & Maloney Spinal

| Tubes Tested<br>Dil. & Amount | Tube<br>No. | $\frac{1}{25}$ | $\frac{1}{26}$ | $\frac{1}{27}$ | $\frac{1}{28}$ | $\frac{1}{29}$ | $\frac{1}{30}$ | $\frac{5}{3}$        |
|-------------------------------|-------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------------|
|                               |             | 1              | 2              | 3              | 4              | 5              | 6              | 7                    |
| $0.2 \text{ ml.} / 10^{-1}$   | 63-116      | 0              | 0              | 0              |                |                | 0              | 0                    |
|                               | 117         | 0              | 0              | 0              |                |                | 0              | 0                    |
|                               | 118         | 0              | 0              | 0              |                |                | 0              | 0                    |
| $10^{-2}$                     | 119         | 0              | 0              | 0              |                |                | 0              | 0                    |
|                               | 120         | 0              | 0              | 0              |                |                | 0              | 0                    |
|                               | 121         | 0              | 0              | 0              |                |                | 0              | lost tube in<br>draw |
| $10^{-3}$                     | 122         | 0              | 0              | 0              |                |                | 0              | 0                    |
|                               | 123         | 0              | 0              | 0              |                |                | 0              | 0                    |
|                               | 124         | 0              | 0              | 0              |                |                | 0              | 0                    |
| $10^{-4}$                     | 125         | 0              | 0              | 0              |                |                | 0              | 0                    |
|                               | 126         | 0              | 0              | 0              |                |                | 0              | 0                    |
| $10^{-5}$                     | 127         | 0              | 0              | 0              |                |                | 0              | 0                    |
|                               | 128         | 0              | 0              | 0              |                |                | 0              | 0                    |
| $10^{-6}$                     | 129         | 0              | 0              | 0              |                |                | 0              | 0                    |
|                               | 130         | 0              | 0              | 0              |                |                | 0              | 0                    |

Cypr 6359 Forahoney AF-23 (Series) <sup>Homogeneity</sup>

Subpassage of 6707 - 0.4 ml. of 10<sup>7</sup> susp. Intra-  
 cerebrally - Paralyzed 9<sup>th</sup> day; killed 9<sup>th</sup> day

On 4/30/54 sections of lumbar & cervical cord  
 ground 10<sup>7</sup> susp centrifuged super-  
 natant stored - A-7-1

Tube No. Series 69 of 4/23/54 1-15

| Inoc. Tested               | Tube No. | 5/1            | 5/3                | 5/5   | 5/8               |
|----------------------------|----------|----------------|--------------------|-------|-------------------|
| Dil. & Amount              | No.      | 1              | 3                  | 5     | 8                 |
| 2.2 ml. / 10 <sup>-1</sup> | 69-1     | ±              | 3                  | off ✓ |                   |
|                            | 2        | 0 <sup>+</sup> | 3-4                | " ✓   |                   |
|                            | 3        | 0 <sup>+</sup> | 4 <del>+</del>     |       |                   |
| 10 <sup>-2</sup>           | 4        | 0              | 4 <del>off</del> ✓ |       |                   |
|                            | 5        | 0 <sup>+</sup> | " ✓                |       |                   |
|                            | 6        | 0              | " ✓                |       |                   |
| 10 <sup>-3</sup>           | 7        | 0 <sup>+</sup> | 3                  | off ✓ |                   |
|                            | 8        | 0 <sup>+</sup> | 0                  | 1-3   | off + resid       |
|                            | 9        | 0 <sup>+</sup> | 4 <del>off</del> ✓ |       |                   |
| 10 <sup>-4</sup>           | 10       | 0              | 0                  | 0     | 0? or off + resid |
|                            | 11       | 0              | 0                  | 0     | 0 ✓               |
| 10 <sup>-5</sup>           | 12       | 0              | 0                  | 0     | 0 ✓               |
|                            | 13       | 0              | 0                  | 0     | 0 ✓               |
| 10 <sup>-6</sup>           | 14       | 0              | 0                  | 0     | 0 ✓               |
|                            | 15       | 0              | 0d                 | 0d    | 0d ✓              |

10<sup>-3.5</sup> / 0.2 ml

10<sup>4.7</sup> TC<sub>50</sub> / GM

Oye. 6261 - Toraloney #F-33 - Series Homogeneity

Subpassage of 6207 1.4 ml. of 10% suspension  
Intracerebrally

On 4/23/54 sections of lumbar & cervical cord  
ground into 10% susp. centrifuged  
supernatant stored A-7-1

Tube No. Series 09 of 4/23/54 16-30

| Dil. of Ambient No.        | Tube No. | 5/1 | 5/3     | 5/5       | 5/8 |
|----------------------------|----------|-----|---------|-----------|-----|
| 1.2 ml. / 10 <sup>-1</sup> | 69-16    | 0   | 3       | Off ✓     |     |
|                            | 17       | 0-2 | 4 off ✓ |           |     |
|                            | 18       | 0   | " ✓     |           |     |
| 10 <sup>-2</sup>           | 19       | 0   | 1-3     | Off ✓     |     |
|                            | 20       | 0   | 4 off ✓ |           |     |
|                            | 21       | 0   | " ✓     |           |     |
| 10 <sup>-3</sup>           | 22       | 0   | 0       | 0         | 0 ✓ |
|                            | 23       | 0   | 3-4     | Off ✓     |     |
|                            | 24       | 0   | off ✓   | Off ✓     |     |
| 10 <sup>-4</sup>           | 25       | 0   | 0       | Od-alkal. | Od  |
|                            | 26       | 0   | 0       | Od        | 0   |
| 10 <sup>-5</sup>           | 27       | 0   | 0       | 0         | 0   |
|                            | 28       | 0   | 0       | 0         | 0   |
| 10 <sup>-6</sup>           | 29       | 0   | 0       | 0         | 0   |
|                            | 30       | 0   | 0       | 0         | 0   |

discarded

10<sup>-3.3</sup> / 0.2 ml

10<sup>-4</sup> TCID<sub>50</sub> / 6 ml

483  
Cyn 6362 - Mahoney, KP33, Homogeneity Progeny Test Series

Subpass. from Cyn 6207 -  $10^{4.3} \text{TCD}_{50}$  i.cer. on 4-21-53  
 to 6362. Paralyzed 16 days later on 5/7/54; killed 5/7  
 10% susp. of lumb. + cervical enlargements in Hanks  
 Frozen in C-1-3

Culture Tubes Used: Kidney Series 73 of 4-30-54

| <u>Dilution</u> | <u>Tube No.</u> | <u>5/10</u> | <u>5/12</u> | <u>5/14</u> | <u>5/16</u> |
|-----------------|-----------------|-------------|-------------|-------------|-------------|
|                 |                 | <u>2</u>    | <u>4</u>    | <u>6</u>    | <u>8</u>    |
| $10^{-1}$ (10%) | 73-16           | 1-2         | off ✓       |             |             |
|                 | 17              | 0-1         | off ✓       |             |             |
|                 | 18              | 1           | off ✓       |             |             |
| $10^{-2}$       | 19              | 3           | off ✓       |             |             |
|                 | 20              | 4           | off ✓       |             |             |
|                 | 21              | 3           | off ✓       |             |             |
| $10^{-3}$       | 22              | 3           | off ✓       |             |             |
|                 | 23              | 0           | off ✓       |             |             |
|                 | 24              | 1-2         | off ✓       |             |             |
| $10^{-4}$       | 25              | 1           | off ✓       |             |             |
|                 | 26              | 0           | off ✓       |             |             |
| $10^{-5}$       | 27              | 0           | 0           | 0           | 0           |
|                 | 28              | 0           | 0           | 0           | 0           |
| $10^{-6}$       | 29              | 0           | 0           | 0           | 0           |
|                 | 30              | 0           | 0           | 0           | 0           |

$10^{-4.5} / 0.2 \text{ ml}$

$10^{5.2} \text{TCD}_{50} / \text{Gm.}$

April 28, 1954

Byrn 6265 McKoney S.F. 33

Subpass from 4<sup>th</sup> sub.  $10^{-6}$  Dil. Byrn 6209 Intracerebrally

Died 7 days; diarrhea - no paralysis

Histology neg

On 4/28/54 sections of spinal cord ground into 10% susp  
centrifuged supernatant stored A-4-1

Tubes - Kidney Series 68 of 4/22/54

discarded

| Mat. Used<br>Dil. & Amount | Tube No. | #/20 | #/100 | 5/3 | 5/6 |
|----------------------------|----------|------|-------|-----|-----|
| 0.2ml.<br>/ $10^{-1}$      | 68-1     | 1    | 2     | 5   | 8   |
|                            | 2        |      | 0     | 0   | 0   |
|                            | 3        |      | 0     | 0   | 0   |
| $10^{-2}$                  | 4        |      | 0     | 0   | 0   |
|                            | 5        |      | 0     | 0   | 0   |
|                            | 6        |      | 0     | 0   | 0   |
| $10^{-3}$                  | 7        |      | 0     | 0   | 0   |
|                            | 8        |      | 0     | 0   | 0   |
|                            | 9        |      | 0     | 0   | 0   |
| $10^{-4}$                  | 10       |      | 0     | 0   | 0   |
|                            | 11       |      | 0     | 0   | 0   |
| $10^{-5}$                  | 12       |      | 0     | 0   | 0   |
|                            | 13       |      | 0     | 0   | 0   |
| $10^{-6}$                  | 14       |      | 0     | 0   | 0   |
|                            | 15       |      | 0     | 0   | 0   |

Expt. 6569 Trichomy HP-33 (Homogeneity Series)  
 Subpassage # 6213 i. ~~4725~~ of  $10^6$  ~~cells~~  
 Paralyzed 9<sup>th</sup> day; Killed 9<sup>th</sup> day

On 4/30/54 sections of cord ground into  $10^7$  susp.  
 centrifuged supernatant stored A-7-1

Substrated Series 69 of 4/23/54 stored

| Substr. Tested     | Tube No. | 5/1 | 5/3       | 5/5             | 5/8                     |
|--------------------|----------|-----|-----------|-----------------|-------------------------|
| Dil. Amount        |          | 1   | 3         | 5               | 8                       |
| 1.2 ml / $10^{-1}$ | 69-31    | 1-3 | off resid | few resid cells | few resid. cells left ✓ |
|                    | 32       | 3-4 | off ✓     |                 |                         |
|                    | 33       | 3-4 | off ✓     |                 |                         |
|                    | 34       | 3-4 | off ✓     |                 |                         |
| 10 <sup>-2</sup>   | 35       | 3-4 | " ✓       |                 |                         |
|                    | 36       | 4   | " ✓       |                 |                         |
|                    | 37       | 1-3 | off ✓     |                 |                         |
| 10 <sup>-3</sup>   | 38       | 2-3 | " ✓       |                 |                         |
|                    | 39       | 2-3 | " ✓       |                 |                         |
|                    | 40       | 0-1 | off ✓     |                 |                         |
| 10 <sup>-4</sup>   | 41       | 0-2 | " ✓       |                 |                         |
|                    | 42       | ?   | off ✓     |                 |                         |
| 10 <sup>-5</sup>   | 43       | 0   | 4 ✓       |                 |                         |
|                    | 44       | 0   | 4 ✓       |                 |                         |
| 10 <sup>-6</sup>   | 45       | ?   | 4 ✓       |                 |                         |

>  $10^{7.2}$  TCID<sub>50</sub>/Gm

4B  
Cyn 6372 - Mahoney KP33, Homogen. Subpass Series

Partial paralysis of both lowers 13 days after icer.  
 injection of  $10^3$  TCB<sub>50</sub> (from 6219-subseed lot series)

10% susp. of lumbar & cervical cord in Hanks'; stored C-1-6

Culture Tubes Used: Kidney Series 70 of 4-27-54 - good tubes

| <u>Dilution</u> | <u>Tube No.</u> | $\frac{5}{6}$<br><u>2</u> | $\frac{5}{8}$<br><u>4</u> | $\frac{5}{10}$<br><u>6</u> | $\frac{5}{12}$<br><u>8</u> |
|-----------------|-----------------|---------------------------|---------------------------|----------------------------|----------------------------|
| $10^{-1}$ (10%) | 70-46           | 4 <sup>toff</sup> ✓       |                           |                            |                            |
|                 | 47              | " ✓                       |                           |                            |                            |
|                 | 48              | " ✓                       |                           |                            |                            |
| $10^{-2}$       | 49              | 4 ✓                       |                           |                            |                            |
|                 | 50              | 4 ✓                       |                           |                            |                            |
|                 | 51              | 4 ✓                       |                           |                            |                            |
| $10^{-3}$       | 52              | 4 ✓                       |                           |                            |                            |
|                 | 53              | 2-3                       | off ✓                     |                            |                            |
|                 | 54              | 4 ✓                       |                           |                            |                            |
| $10^{-4}$       | 55              | 3                         | off ✓                     |                            |                            |
|                 | 56              | 0                         | 4 <sup>toff</sup> ✓       |                            |                            |
| $10^{-5}$       | 57              | 0                         | 0                         | 0                          | 0                          |
|                 | 58              | 0                         | 4 ✓                       |                            |                            |
| $10^{-6}$       | 59              | 0                         | 0                         | 0                          | 0                          |
|                 | 60              | 0                         | 0                         | 0                          | 0                          |

$10^{-5} / 0.2 \text{ ml}$

$10 \frac{5.7}{10} / 6 \text{ ml}$

Oystr. 6374 Frankony Series, KP 34 - Subsect 68  
Propag. Test

Paralysis 25 days after intracerebral injection of  $10^3$  TC<sub>50</sub>  
~~cord~~ cord susp. of Cyn 6219

Monkey killed 5/16/54

Sections of cord ground 5/17/54 into 10%  
susp. centrifuged stored A-4-8

Inoculated Series 81 of 5/10/54

| Dilutions<br>& Amount  | Tube<br>No. | 5/19    | 5/21 | 5/23 | 5/25 |
|------------------------|-------------|---------|------|------|------|
| 0.2 ml.<br>/ $10^{-1}$ | 81-31       | 2 cond. | OH   |      |      |
|                        | 32          | 2       | OH   |      |      |
|                        | 33          | 2       | OH   |      |      |
| $10^{-2}$              | 34          | 1       | OH   |      |      |
|                        | 35          | 2       | OH   |      |      |
|                        | 36          | 0-?     | OH   |      |      |
| $10^{-3}$              | 37          | 2       | OH   |      |      |
|                        | 38          | 2       | OH   |      |      |
|                        | 39          | 2       | OH   |      |      |
| $10^{-4}$              | 40          | 0       | 0    | 4    |      |
|                        | 41          | 0       | OH   |      |      |
| $10^{-5}$              | 42          | 0       | 0    | 0    | 0    |
|                        | 43          | 0       | 0    | 0    | 0    |
| $10^{-6}$              | 44          | 0       | 0    | 0    | 0    |
|                        | 45          | 0       | 0    | 0    | 0    |

$10^{-4.5}$  / 0.2 ml  
 $10^{5.2}$  TC<sub>50</sub> / gm

480

Cyn 6392 - Y-8K, KP51, ~~AB~~ Intracerebral Homogeneity Test

This monkey received  $10^{7.8 \text{ TCID}_{50}}$  of virus intracerebrally on 4-27-54 and had paralysis of uppers + back 8 days later. Midlumbar + midcervical cord - 10% in Hanks

Culture Tubes Used: Kidney series 70 of 4-27-54 - good tubes

| <u>Dilution</u> | <u>Tube no</u> | <u>5/1</u> | <u>5/10</u> | <u>5/12</u> |
|-----------------|----------------|------------|-------------|-------------|
|                 |                | 2          | 5           | 8           |
| $10^{-1}$ (10%) | 70-61          | 3-4        | OH ✓        |             |
|                 | 62             | 1-2        | OH ✓        |             |
|                 | 63             | 2          | OH ✓        |             |
| $10^{-2}$       | 64             | 4 ✓        |             |             |
|                 | 65             | 4 ✓        |             |             |
|                 | 66             | 4 ✓        |             |             |
| $10^{-3}$       | 67             | 4 ✓        |             |             |
|                 | 68             | 4 ✓        |             |             |
|                 | 69             | 4 ✓        |             |             |
| $10^{-4}$       | 70             | 2-3        | OH ✓        |             |
|                 | 71             | 2-3        | OH ✓        |             |
| $10^{-5}$       | 72             | 0          | OH ✓        |             |
|                 | 73             | 0          | 0           | OH -        |
| $10^{-6}$       | 74             | 0          | 0           | 0           |
|                 | 75             | 0          | 0           | 0           |

$10^{-5.5} / 0.2 \text{ ml}$

$10^{6.2 \text{ TCID}_{50}} / \text{g wt.}$

MAY 8 1954

488  
Cyn 6398 - Y8K, KP57, Intracerebral Homogeneity Series

Definite paralysis 5/7/54 - 10 days after i.cer. injection  
 of  $10^{6.3} \text{TCID}_{50}$ ; Killed 5/7/54 - 10% susp. of lumbar & cervical  
 enlargements in tanks - frozen in C-13  
 5/8/54 - Thawed & Titered

Culture Tubes Used: Kidney Series 73 of 4-30-54

| <u>Dilution</u> | <u>Tube No.</u> | <u>5/10</u> | <u>5/12</u> | <u>5/14</u> | <u>5/16</u> |
|-----------------|-----------------|-------------|-------------|-------------|-------------|
|                 |                 | <u>2</u>    | <u>4</u>    | <u>6</u>    | <u>8</u>    |
| $10^{-1}$ (10%) | 73-31           | 1-2         | TH ✓        |             |             |
|                 | 32              | 1-2         | TH ✓        |             |             |
|                 | 33              | 3           | TH ✓        |             |             |
| $10^{-2}$       | 34              | 4           |             |             |             |
|                 | 35              | 3           | TH ✓        |             |             |
|                 | 36              | 3           | TH ✓        |             |             |
| $10^{-3}$       | 37              | 0           | TH ✓        |             |             |
|                 | 38              | 2           | TH ✓        |             |             |
|                 | 39              | 3           | TH ✓        |             |             |
| $10^{-4}$       | 40              | 0           | TH ✓        |             |             |
|                 | 41              | 0           | 0           | TH ✓        |             |
| $10^{-5}$       | 42              | 0           | 0           | 0           | 0           |
|                 | 43              | 0           | 0           | 0           | 0           |
| $10^{-6}$       | 44              | 0           | 0           | 0           | 0           |
|                 | 45              | 0           | 0           | 4 ✓         |             |

|           |   |   |   |   |      |
|-----------|---|---|---|---|------|
|           | 3 | 0 | 6 | 0 |      |
| $10^{-4}$ | 2 | 0 | 3 | 0 | 100% |
| $10^{-5}$ | 0 | 2 | 1 | 2 | 33%  |
|           | 1 | 1 | 1 | 3 |      |

$$\frac{100 - 50}{100 - 33} = \frac{50}{67}$$

$$10^{-4.7} / 0.2 \text{ ml}$$

$$10^{5.2} \text{TCID}_{50} / \text{gram}$$

Org. 6400 GSK, KPS1 Icer Homogeneity Ex.

Paralysis 16 days after icer. injection of  $10^{6.3}$  TCID<sub>50</sub>  
of tube 53-210

5-13-54 - 10% susp. of midlumbar + midcervical - 1 gm.

Strain C-1-4

Tubes used Series 76 of 5/4/54

| Dilutions +<br>Amount        | Tube<br>No. | 5/5 | 5/7          | 5/9 | 5/21 |
|------------------------------|-------------|-----|--------------|-----|------|
|                              |             | 2   | <del>4</del> | 6   | 8    |
| 0.2 ml.<br>/10 <sup>-1</sup> | 75-225      | 1-2 | off          |     |      |
|                              | 226         | 1   | off          |     |      |
|                              | 227         | 0   | off          |     |      |
| 10 <sup>-2</sup>             | 228         | 0   | 4            |     |      |
|                              | 229         | 0   | 4            |     |      |
|                              | 230         | 0   | off          |     |      |
| 10 <sup>-3</sup>             | 231         | 0   | 0            | 4   |      |
|                              | 232         | 0   | 2            | off |      |
|                              | 233         | 0   | 0            | 4   |      |
| 10 <sup>-4</sup>             | 234         | 0   | 0            | 0   | 0    |
|                              | 235         | 0   | 0            | 0   | 0    |
| 10 <sup>-5</sup>             | 236         | 0   | 0            | 0   | 0    |
|                              | 76-237      | 0   | 0            | 0   | 0    |
| 10 <sup>-6</sup>             | 238         | 0   | 0            | 0   | 0    |
|                              | 239         | 0   | 0            | 0   | 0    |

10<sup>-3.5</sup> / 0.2 ml

10<sup>4.2</sup> TCID<sub>50</sub> / gm

Cyn 6401 - Y-8K, KP51, Homogeneity Series.

This monkey had no paralysis - found moribund with markedly distended abdomen 7 days after intracerebral inoculation of  $10^{6.3}$  TC<sub>50</sub> of virus

10% susp. of lumbar + cervical cord in Hanks'; stored C-1-6

Culture Tubes Used - Kidney tubes - series 70 of 4-27-54  
good tubes

| <u>Dilution</u> | <u>Tube No</u> | $\frac{5/6}{2}$        | $\frac{5/8}{4}$ |
|-----------------|----------------|------------------------|-----------------|
| $10^1$ (10%)    | 31             | Off ✓                  |                 |
|                 | 32             | Off ✓                  |                 |
|                 | 33             | Off ✓                  |                 |
| $10^{-2}$       | 34             | 4 off ✓                |                 |
|                 | 35             | Off ✓                  |                 |
|                 | 36             | Off ✓                  |                 |
| $10^{-3}$       | 37             | 4 off ✓                |                 |
|                 | 38             | " ✓                    |                 |
|                 | 39             | " ✓                    |                 |
| $10^{-4}$       | 40             | 4 ✓                    |                 |
|                 | 41             | 4 ✓                    |                 |
| $10^{-5}$       | 42             | 3-4                    | Off ✓           |
|                 | 43             | 2 photo                | Off ✓           |
| $10^{-6}$       | 44             | 0-2                    | Off ✓           |
|                 | 45             | 0 ( <del>photo</del> ) | 4 off ✓         |

>  $10^{-6.5}$  / 0.2 ml

>  $10^{7.2}$  TC<sub>50</sub> / Gm.

Oyzo. 6404 - YSK, KP51, Homogeneity Test

Moribund 46 hours after inoculation

On 4/29/54 sections of cord ground into 10<sup>7</sup> susp.  
centrifuged stored A-5-3

Inoculated Series 68 by 4/22/54

| Tube Tested                | Tube No. | 4/20 | 5/3     | 5/7  | Discarded |
|----------------------------|----------|------|---------|------|-----------|
| Dil. & Amount              |          | 1    | 4       | 8    | ✓         |
| 0.2 ml. / 10 <sup>-1</sup> | 68-1     | 0    | off ✓   |      |           |
|                            | 2        | 0    | " ✓     |      |           |
|                            | 3        | 0    | " ✓     |      |           |
| 10 <sup>-2</sup>           | 4        | 0    | off ✓   |      |           |
|                            | 5        | 0    | 4 off ✓ |      |           |
|                            | 6        | 0    | " ✓     |      |           |
| 10 <sup>-3</sup>           | 7        | 0    | 0 alk.  | Dalk |           |
|                            | 8        | 0    | 0d      | 0d   |           |
|                            | 9        | 0    | 0d      | 0d   |           |
| 10 <sup>-4</sup>           | 10       | 0    | 0       | 0    |           |
|                            | 11       | 0    | 0d      | 0a   |           |
| 10 <sup>-5</sup>           | 12       | 0    | 0d      | 0    |           |
|                            | 13       | 0    | 0d      | 0    |           |
| 10 <sup>-6</sup>           | 14       | 0    | 0d      | 0    |           |
|                            | 15       | 0    | 0d      | 0    |           |

10<sup>-2.5</sup> / 0.2 ml  
10<sup>3.2</sup> TC 50 / 6 ml

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Cyn 6410 - YSk, KP53 - Large Bottle - large inoculum

Paralyzed 9 days after intracerebral injection of  
<sup>on 4-27-54</sup>  
 $10^{7.2}$  TC<sub>50</sub>. Killed 9<sup>th</sup> day. 10% susp. of midlumbar  
 + midcervical cords in Hank's. Immediately Tetered  
 Frozen in C-1-9

Culture Tubes Used: Series 71 of 4-28-54

| <u>Dilution</u> | <u>Tube No.</u> | <u>5/8</u> | <u>5/10</u> | <u>5/12</u> | <u>5/14</u> |
|-----------------|-----------------|------------|-------------|-------------|-------------|
|                 |                 | <u>2</u>   | <u>4</u>    | <u>6</u>    | <u>8</u>    |
| $10^{-1}$ (10%) | 71-1            | 0-1        | same        | mid         | off ✓       |
|                 | 2               | 0-1        | mid         | off         | ✓           |
|                 | 3               | 0-1        | off         | ✓           |             |
| $10^{-2}$       | 4               | 4 ✓        |             |             |             |
|                 | 5               | 4 ✓        |             |             |             |
|                 | 6               | 4 ✓        |             |             |             |
| $10^{-3}$       | 7               | 3-4        | off ✓       |             |             |
|                 | 8               | 2-4        | off ✓       |             |             |
|                 | 9               | 3-4        | off ✓       |             |             |
| $10^{-4}$       | 10              | 0-2        | off ✓       |             |             |
|                 | 11              | 0          | off ✓       |             |             |
| $10^{-5}$       | 12              | 0          | off ✓       |             |             |
|                 | 13              | 0          | off ✓       |             |             |
| $10^{-6}$       | 14              | 0          | 0           | off ✓       | ✓           |
|                 | 15              | 0          | 0           | 0           | 0 ✓         |

$10^{6.7}$  TC<sub>50</sub>/Gm

Repeat Titration Cyst. 6416 Y-5K, KP-53 Ice.

STANDARD B & P "NOISEAR"

On 7/1/54 removed from dry ice box and returned STAND A-7-3

Tubes used Series 8 of 6/24/54

| Dist. Tested<br>Dil. & Amount | Tube No. | 1/2 | 1/2 | 1/2 | 1/4   | 1/5 | 1/6   | 1/8   | 1/9   | 1/10  |
|-------------------------------|----------|-----|-----|-----|-------|-----|-------|-------|-------|-------|
|                               |          | 2   | 1   | 2   | 3     | 4   | 5     | 6     | 7     | 8     |
| 0.2 ml.<br>/10 <sup>-1</sup>  | 8-16     |     | 0   | 0   | 0     | 0   | 0     | 0     | 0     | 0     |
|                               | 17       |     | 0   | 0   | 1     | 3-4 | resid | resid | resid | resid |
|                               | 18       |     | 0   | 0   | 0-1   | 4   | off   |       |       |       |
| 10 <sup>-2</sup>              | 19       |     | 0   | 0   | 0     | 0   | 0     | 0     | 0     | 0     |
|                               | 20       |     | 0   | 3   | off   |     |       |       |       |       |
|                               | 21       |     | 0   | 1   | 4 off |     |       |       |       |       |
| 10 <sup>-3</sup>              | 22       |     | 0   | 0   | 0     | 0   | 0     | 0     | 0     | 0     |
|                               | 23       |     | 0   | 0   | 0     | 0   | 0     | 0     | 0     | 0     |
|                               | 24       |     | 0   | 0   | 0     | 0   | 4     |       |       |       |
| 10 <sup>-4</sup>              | 25       |     | 0   | 0   | 0     | 0   | 0     | 0     | 0     | 0     |
|                               | 26       |     | 0   | 0   | 0     | 0   | 0     | 0     | 0     | 0     |
| 10 <sup>-5</sup>              | 27       |     | 0   | 0   | 0     | 0   | 0     | 0     | 0     | 0     |
|                               | 28       |     | 0   | 0   | 0     | 0   | 0     | 0     | 0     | 0     |
| 10 <sup>-6</sup>              | 29       |     | 0   | 0   | 0     | 0   | 0     | 0     | 0     | 0     |
|                               | 30       |     | 0   | 0   | 0     | 0   | 0     | 0     | 0     | 0     |

7/6/54 vac. extensive in all tubes

10<sup>-2.3</sup> / 0.2 ml  
10<sup>3</sup> total / 6

STANDARD B & P "NOISEAR"

Titration done by H.N.

Cypr. 6416 - J-5K, KP53 - Large bottle large inoc

Partial - slight paralysis both towers 15 days after  
1. cc injection of  $10^{7.2}$  TC<sub>50</sub>

Tube Used Series 76 of 5/4/54

| Dilution +<br>Amount   | Tube<br>No. | 5/4<br>2 | 5/6<br>4 | 5/8<br>6 | 5/10<br>8 |
|------------------------|-------------|----------|----------|----------|-----------|
| 0.2 ml.<br>/ $10^{-1}$ | 76-1        | 0        | 4        |          |           |
|                        | 2           | 0        | 4        |          |           |
|                        | 3           | 0        | 4        |          |           |
| $10^{-2}$              | 4           | 0        | 0        | 0        | 0         |
|                        | 5           | 0        | 0        | 0        | 0         |
|                        | 6           | 0        | 0        | 0        | 0         |
| $10^{-3}$              | 7           | 0        | 0        | 0        | 0         |
|                        | 8           | 0        | 0        | 0        | 0         |
|                        | 9           | 0        | 0        | 0        | 0         |
| $10^{-4}$              | 10          | 0        | 0        | 0        | 0         |
|                        | 11          | 0        | 0        | 0        | 0         |
| $10^{-5}$              | 12          | 0        | 0        | 0        | 0         |
|                        | 13          | 0        | 0        | 0        | 0         |
| $10^{-6}$              | 14          | 0        | 0        | 0        | 0         |
|                        | 15          | 0        | 0        | 0        | 0         |

struck A-7-3

~~Repeat~~

This is pattern  
of one of  
Dr. Nakai's  
forgetful  
titrations

$10^{-1.5}$  / 0.2 ml  
 $10^{2.2}$  TC<sub>50</sub> / gm.

MAY 8 1954

485  
Cyn 6415 - YSK, KP53 (Large Bottle - large inoculum)

Paralyzed to-day, 11 days after intracerebral inoculation  
of  $10^{7.2}$  TC<sub>50</sub> of virus. 10% susp. of lumbar &  
cervical enlargements in Hanks. Immediately Titered  
Stored C-1-3

Culture Tubes Used: Series 73 of 4-30-54

| <u>Dilution</u> | <u>Tube No.</u> | $\frac{5/0}{2}$ | $\frac{5/12}{4}$ | $\frac{5/14}{6}$ |
|-----------------|-----------------|-----------------|------------------|------------------|
| $10^{-1}$ (10%) | <u>73</u> -1    | OH ✓            |                  |                  |
|                 | 2               | OH ✓            |                  |                  |
|                 | 3               | 0-?             | OH               |                  |
| $10^{-2}$       | 4               | OH ✓            |                  |                  |
|                 | 5               | 3-4             | OH               |                  |
|                 | 6               | OH ✓            |                  |                  |
| $10^{-3}$       | 7               | OH ✓            |                  |                  |
|                 | 8               | 4 ✓             |                  |                  |
|                 | 9               | 4 ✓             |                  |                  |
| $10^{-4}$       | 10              | 3               | OH               |                  |
|                 | 11              | 4 ✓             |                  |                  |
| $10^{-5}$       | 12              | 4 ✓             |                  |                  |
|                 | 13              | 2               | OH               |                  |
| $10^{-6}$       | 14              | 0               | 5                | OH               |
|                 | 15              | 0               | 4                |                  |

$> 10^{7.2}$  TC<sub>50</sub> / Cuv

MAY 21 1954

Oxyd. 6427 - Mahoney Series - KP35 - Large  
bottle - large  
inoculum

Dead 16 days after i.c.e. injection of  $10^8$  TC<sub>50</sub>

On 5/21/54 sections of cord ground into 10% susp.  
centrifuged supernatant stored A-4-8

Tubes used 85 of 5/14/54

| Amount &<br>Dilutions  | Tube<br>70. | 5/23<br>2 | 5/25<br>4 | 5/27<br>6 | 5/29<br>8 |
|------------------------|-------------|-----------|-----------|-----------|-----------|
| 0.2 ml.<br>/ $10^{-1}$ | 85          | 0         | 0         | 0         | 0         |
|                        | 77          | 0         | 0         | 0         | 0         |
|                        | 78          | 0         | 0         | 0         | 0         |
| $10^{-2}$              | 79          | 0         | 0         | 0         | 0         |
|                        | 80          | 0         | 0         | 0         | 0         |
|                        | 81          | 0         | 0         | 0         | 0         |
| $10^{-3}$              | 82          | 0         | 0         | 0         | 0         |
|                        | 83          | 0         | 0         | 0         | 0         |
|                        | 84          | 0         | 0         | 0         | 0         |
| $10^{-4}$              | 85          | 0         | 0         | 0         | 0         |
|                        | 86          | 0         | 0         | 0         | 0         |
| $10^{-5}$              | 87          | 0         | 0         | 0         | 0         |
|                        | 88          | 0         | 0         | 0         | 0         |
| $10^{-6}$              | 89          | 0         | 0         | 0         | 0         |
|                        | 90          | 0         | 0         | 0         | 0         |

Discard

Oye. 6430 Frakoney, KP35 - Large bottle - large  
inoculum

Inoc. injury + paral. 7 days after ice injection of  $10^8$  TC<sub>50</sub>

Tube used Series 76 of 2/4/54

| Dilutions & Amount  | Tube No. | stand A-7-3 |      |      |      |
|---------------------|----------|-------------|------|------|------|
|                     |          | 5/14        | 5/16 | 5/18 | 5/20 |
| 0.2 ml. / $10^{-1}$ | 76-16    | 2           | 4    | 6    | 2    |
|                     | 17       | 4           |      |      |      |
|                     | 18       | 4           |      |      |      |
| $10^{-2}$           | 19       | 4           |      |      |      |
|                     | 20       | 4           |      |      |      |
|                     | 21       | 4           |      |      |      |
| $10^{-3}$           | 22       | 4           |      |      |      |
|                     | 23       | 4           |      |      |      |
|                     | 24       | 4           |      |      |      |
| $10^{-4}$           | 25       | 0           | 4    |      |      |
|                     | 26       | 2           | 4    |      |      |
| $10^{-5}$           | 27       | 0           | 0    | 4    |      |
|                     | 28       | 0           | 0    | 0    | 0    |
| $10^{-6}$           | 29       | 0           | 4    |      |      |
|                     | 30       | 0           | 0    | 0    | 0    |

$10^{-5.5}$  / 0.2 ml

$10^{6.2}$  TC<sub>50</sub> / 6 ml

MAY 12 1954

Cyn. 6432 Frakoney, KP 35, large bottle-large inoculum

Died 7 days after i.cer. injection of  $10^8$  T<sub>2</sub>D<sub>10</sub>  
No paralysis; bloody diarrhea

Tested Series 76 of 5/4/54

Strain A-7-3

| Dilutions + Amount  | Tube No. | 5/4 | 5/6 | 5/8 | 5/10      |
|---------------------|----------|-----|-----|-----|-----------|
|                     |          | 2   | 4   | 6   | 8         |
| 0.2 ml. / $10^{-1}$ | 76-31    | 0   | 0   | 0   | 0         |
|                     | 32       | 0   | 0   | 0   | 0         |
|                     | 33       | 0   | 0   | 0   | 0         |
| $10^{-2}$           | 34       | 0   | 0   | 0   | 0         |
|                     | 35       | 0   | 0   | 0   | 0         |
|                     | 36       | 0   | 0   | 0   | 0         |
| $10^{-3}$           | 37       | 0   | 0   | 0   | 0         |
|                     | 38       | 0   | 0   | 2/4 | wh. disc. |
|                     | 39       | 0   | 0   | 0   | 0         |
| $10^{-4}$           | 40       | 0   | 0   | 0   | 0         |
|                     | 41       | 0   | 0   | 0   | 0         |
| $10^{-5}$           | 42       | 0   | 0   | 0   | 0         |
|                     | 43       | 0   | 0   | 0   | 0         |
| $10^{-6}$           | 44       | 0   | 0   | 0   | 0         |
|                     | 45       | 0   | 0   | 0   | 0         |

Repeat Titration Cyp. 6416 U-5K, KP53 Juv.

On 7/1/54 removed from dry ice box and returned stand A-7-3

Tubes used Series 8 of 6/24/54

| Conc. Tested<br>Dil. & Amount | Tube No. | 1/2 | 1/2 | 1/2 | 1/4   | 1/5 | 1/6    | 1/8    | 1/9    | 1/10   |
|-------------------------------|----------|-----|-----|-----|-------|-----|--------|--------|--------|--------|
|                               |          | 2   | 1   | 2   | 3     | 4   | 5      | 6      | 7      | 8      |
| 0.2 ml / 10 <sup>-1</sup>     | 8-16     |     | 0   | 0   | 0     | 0   | 0      | 0      | 0      | 0      |
|                               | 17       |     | 0   | 0   | 1     | 3-4 | reside | reside | reside | reside |
|                               | 18       |     | 0   | 0   | 0-1   | 4   | off    |        |        |        |
| 10 <sup>-2</sup>              | 19       |     | 0   | 0   | 0     | 0   | 0      | 0      | 0      | 0      |
|                               | 20       |     | 0   | 3   | off   |     |        |        |        |        |
|                               | 21       |     | 0   | 1   | 4 off |     |        |        |        |        |
| 10 <sup>-3</sup>              | 22       |     | 0   | 0   | 0     | 0   | 0      | 0      | 0      | 0      |
|                               | 23       |     | 0   | 0   | 0     | 0   | 0      | 0      | 0      | 0      |
|                               | 24       |     | 0   | 0   | 0     | 0   | 4      |        |        |        |
| 10 <sup>-4</sup>              | 25       |     | 0   | 0   | 0     | 0   | 0      | 0      | 0      | 0      |
|                               | 26       |     | 0   | 0   | 0     | 0   | 0      | 0      | 0      | 0      |
| 10 <sup>-5</sup>              | 27       |     | 0   | 0   | 0     | 0   | 0      | 0      | 0      | 0      |
|                               | 28       |     | 0   | 0   | 0     | 0   | 0      | 0      | 0      | 0      |
| 10 <sup>-6</sup>              | 29       |     | 0   | 0   | 0     | 0   | 0      | 0      | 0      | 0      |
|                               | 30       |     | 0   | 0   | 0     | 0   | 0      | 0      | 0      | 0      |

7/6/54 vac. extensive in all tubes

10<sup>-2.3</sup> / 0.2 ml  
10<sup>3</sup> total / 6

Titration done by H.N.

Cypr. 6416 - Y-5K, KP53 - Large bottle large inoc

Partial - slight paralysis both lowers 15 days after  
1. cc injection of  $10^{7.2}$  TCID<sub>50</sub>

Tube titer Series 76 of 5/4/54

|                     |          | struck A-7-3 |          |          |          |
|---------------------|----------|--------------|----------|----------|----------|
| Dilutions & Amount  | Tube No. | 5/14         | 5/16     | 5/18     | 5/20     |
|                     |          | <u>2</u>     | <u>4</u> | <u>6</u> | <u>8</u> |
| 0.2 ml. / $10^{-1}$ | 76-1     | 0            | 4        |          |          |
|                     | 2        | 0            | 4        |          |          |
|                     | 3        | 0            | 4        |          |          |
| $10^{-2}$           | 4        | 0            | 0        | 0        | 0        |
|                     | 5        | 0            | 0        | 0        | 0        |
|                     | 6        | 0            | 0        | 0        | 0        |
| $10^{-3}$           | 7        | 0            | 0        | 0        | 0        |
|                     | 8        | 0            | 0        | 0        | 0        |
|                     | 9        | 0            | 0        | 0        | 0        |
| $10^{-4}$           | 10       | 0            | 0        | 0        | 0        |
|                     | 11       | 0            | 0        | 0        | 0        |
| $10^{-5}$           | 12       | 0            | 0        | 0        | 0        |
|                     | 13       | 0            | 0        | 0        | 0        |
| $10^{-6}$           | 14       | 0            | 0        | 0        | 0        |
|                     | 15       | 0            | 0        | 0        | 0        |

Repeat

This is pattern of one of Dr. Nakai's forgetful titrations

$10^{-1.5}$  / 0.2 ml  
 $10^{2.2}$  TCID<sub>50</sub> / 6 ml.

MAY 22 1954

Czn 6433 - Makoy Series, KP35, large bottle  
large inoculumParalysis 17 days after ier. injection of  $10^8$  rcd<sub>10</sub>On 5/22/54 sections of ear ground in 10% swp  
centrifuged supernatant stored

Stored 0-4-2

Tuberculin Series 85 of 5/14/54

| Dilutions          | Tube No. | 5/25 | 5/26 | 5/28 | 5/30 |
|--------------------|----------|------|------|------|------|
| 2.2 ml / $10^{-1}$ | 85-101   | 2    | 3    | off  |      |
|                    | 202      | 2    | 4    |      |      |
|                    | 203      | 2    | off  |      |      |
|                    | 204      | 0    | 0    | 0    | 4    |
| $10^{-2}$          | 205      | 0    | 0    | off  |      |
|                    | 206      | 0    | 0    | 2    | off  |
|                    | 207      | 0    | 0    | 0    | 0    |
| $10^{-3}$          | 208      | 0    | 0    | 0    | 0    |
|                    | 209      | 0    | 0    | 0    | 0    |
|                    | 210      | 0    | 0    | 0    | 0    |
| $10^{-4}$          | 211      | 0    | 0    | 0    | 0    |
|                    | 212      | 0    | 0    | 0    | 0    |
| $10^{-5}$          | 213      | 0    | 0    | 0    | 0    |
|                    | 214      | 0    | 0    | 0    | 0    |
| $10^{-6}$          | 215      | 0    | 0    | 0    | 0    |

 $10^{-2.5}$  / 0.2 ml $10^{3.2}$  rcd<sub>50</sub> / gm

MAY 21 1954

Cypr. 6435 Makomy Series, KP35—  
 Large bottle  
 large inoculum

Dead 13 days (diarrhea) after i.cer. injection of  $10^8$  T<sub>970</sub>

On 5/18/54 sections of rod ground into 10% susp.  
 centrifuged supernatant stored A-4-8

Tubes used Series 85 of 5/14/54

| <u>Amount +<br/>Dilutions</u> | <u>Tube<br/>No.</u> | <u>5/23</u> | <u>5/25</u> | <u>5/27</u> | <u>5/29</u> ← Discard |
|-------------------------------|---------------------|-------------|-------------|-------------|-----------------------|
| 0.2 ml.<br>/ $10^{-1}$        | 85-1                | 0           | 0           | 0           | 0                     |
|                               | 2                   | 0           | 0           | 0           | 0                     |
|                               | 3                   | 0           | 0           | 0           | 0                     |
| $10^{-2}$                     | 4                   | 0           | 0           | 0           | 0                     |
|                               | 5                   | 0           | 0           | 0           | 0                     |
|                               | 6                   | 0           | 0           | 0           | 0                     |
| $10^{-3}$                     | 7                   | 0           | 0           | 0           | 0                     |
|                               | 8                   | 0           | 0           | 0           | 0                     |
|                               | 9                   | 0           | 0           | 0           | 0                     |
| $10^{-4}$                     | 10                  | 0           | 0           | 0           | 0                     |
|                               | 11                  | 0           | 0           | 0           | 0                     |
| $10^{-5}$                     | 12                  | 0           | 0           | 0           | 0                     |
|                               | 13                  | 0           | 0           | 0           | 0                     |
| $10^{-6}$                     | 14                  | 0           | 0           | 0           | 0                     |
|                               | 15                  | 0           | 0           | 0           | 0                     |

Cypr. 6437 Makoney Series, KP36, Large bottle  
large inoculum

Found dead 12 days after i.c. injection of  $10^{2.2}$  TCID<sub>50</sub>

Monkey found dead 5/17/54

sections of earl ground 5/17/54 into 10% susp.  
centrifuged supernatant stored A-4-3

Tuberculosis Series 81 by 5/10/54

| Dilutions<br>& Amount  | Tube<br>No. | 7/9 | 7/21 | 7/23 | 7/25 |
|------------------------|-------------|-----|------|------|------|
|                        |             | 2   | 4    | 6    | 8    |
| 0.2 ml.<br>/ $10^{-1}$ | 81-91       | 0   | 0    | 0    | 0    |
|                        | 92          | 0   | 0    | 0    | 0    |
|                        | 93          | 0   | 0    | 0    | 0    |
| $10^{-2}$              | 94          | 0   | 0    | 0    | 0    |
|                        | 95          | 0   | 0    | 0    | 0    |
|                        | 96          | 0   | 0    | 0    | 0    |
| $10^{-3}$              | 97          | 0   | 0    | 0    | 0    |
|                        | 98          | 0   | 0    | 0    | 0    |
|                        | 99          | 0   | 0    | 0    | 0    |
| $10^{-4}$              | 100         | 0   | 0    | 0    | 0    |
|                        | 101         | 0   | 0    | 0    | 0    |
| $10^{-5}$              | 102         | 0   | 0    | 0    | 0    |
|                        | 103         | 0   | 0    | 0    | 0    |
| $10^{-6}$              | 104         | 0   | 0    | 0    | 0    |
|                        | 105         | 0   | 0    | 0    | 0    |

Pyre. 6438 *Trachony* Series, KP36

large bottle, large  
inocula

Paralysis 13 days after i.cer. injection of  $10^{7.2}$  TC<sub>50</sub>.

*Trachony* paralyzed 13 days after inoculation  
on 5/18/54 after inoculation with *Trachony* KP-36

On 5/18/54 animal sacrificed sections of cord ground  
into 10% susp. centrifuged supernatant stored A-7-4

Subculture Series 77 of 5/5/54, 78 of 5/6/54, 81 of 5/10/54

| Dilution & Amount  | Tube No.               | 5/20 | 5/22 | 5/24 | 5/26 |
|--------------------|------------------------|------|------|------|------|
| 2.2 ml / $10^{-1}$ | 77-501                 | off  |      |      |      |
|                    | 502                    | off  |      |      |      |
|                    | 78-503                 | +    |      |      |      |
| $10^{-2}$          | 504                    | +    |      |      |      |
|                    | 505                    | +    |      |      |      |
|                    | 506                    | 0-?  | off  |      |      |
| $10^{-3}$          | 507                    | 0    | off  |      |      |
|                    | 508                    | 0    | off  |      |      |
|                    | 509                    | 0-?  | off  |      |      |
| $10^{-4}$          | 570                    | 0    | 0    | 0    | 0    |
|                    | 571                    | 0    | 2    | off  |      |
| $10^{-5}$          | 572                    | 0    | 0    | 0    | 0    |
|                    | 81- <del>573</del> 106 | 0    | 0    | 0    | 0    |
| $10^{-6}$          | <del>574</del> 107     | 0    | 0    | 0    | 0    |
|                    | 575-108                | 0    | 0    | 0    | 0    |

$10^{-4}$  per 0.2 ml

$10^{4.7}$  TC<sub>50</sub>/Gm

change look much like 501/25

MAY 10 1954

Cyr. 6429 - Mahoney, KP36 Series

 $10^{7.2}$  TCID<sub>50</sub> i.cer

Moribund on morning of 4th day; dead 6:30 PM.

Midlumbar + midcervical removed + stored in deep freeze

Monkey ~~fixed~~ <sup>dead</sup> 5/9/54 - stored in deep freeze overnight  
 on 5/10/54 section of cord weighing 0.7 gm. ground  
 into  $10\%$  susp. centrifuged supernatant  
 stored dry ice box

Tuberculin Series 74 of 5/3/54

stored 0-2-1

| Dilutions           | Tube No. | 5/12     | 5/14     | 5/16     | 5/18     |
|---------------------|----------|----------|----------|----------|----------|
|                     |          | <u>2</u> | <u>4</u> | <u>6</u> | <u>8</u> |
| 0.2 ml. / $10^{-1}$ | 74-16    | 0        | 0        | 0        | 0        |
|                     | 17       | 0        | 0        | 0        | 0        |
|                     | 18       | 0        | 0        | 0        | 0        |
|                     | 19       | 0        | 0        | 0        | 0        |
| $10^{-2}$           | 20       | 0        | 0        | 0        | 0        |
|                     | 21       | 0        | 0        | 0        | 0        |
|                     | 22       | 0        | 0        | 0        | 0        |
| $10^{-3}$           | 23       | 0        | 0        | 0        | 0        |
|                     | 24       | 0        | 0        | 0        | 0        |
|                     | 25       | 0        | 0        | 0        | 0        |
| $10^{-4}$           | 26       | 0        | 0        | 0        | 0        |
|                     | 27       | 0        | 0        | 0        | 0        |
| $10^{-5}$           | 28       | 0        | 0        | 0        | 0        |
|                     | 29       | 0        | 0        | 0        | 0        |
| $10^{-6}$           | 30       | 0        | 0        | 0        | 0        |

MAY 12 1954

Cypr. 6440 ~~Thakorey~~ - KP 36, large bottle -  
large inoculum

left hemiplegia! 7 days after ice injection of  $10^{7.2}$  TC<sub>50</sub>

Tubes used Series 76 of 5/4/54

stored A-7-3

| Dilutions & Amount          | Tubes 970. | 5/4<br>2 | 5/16<br>4 | 5/18<br>6 | 5/20<br>8 |
|-----------------------------|------------|----------|-----------|-----------|-----------|
| $0.2 \text{ ml.} / 10^{-1}$ | 76-46      | 4        |           |           |           |
|                             | 47         | 4        |           |           |           |
|                             | 48         | 4        |           |           |           |
| $10^{-2}$                   | 49         | 1        | OH        |           |           |
|                             | 50         | 3        | OH        |           |           |
|                             | 51         | 2        | OH        |           |           |
| $10^{-3}$                   | 52         | 0        | 2         | OH        | 3-4       |
|                             | 53         | 0        | 0         | 0         |           |
|                             | 54         | 0        | OH        |           |           |
| $10^{-4}$                   | 55         | 0        | 0         | 0         | 0         |
|                             | 56         | 0        | 4         |           |           |
| $10^{-5}$                   | 57         | 0        | 0         | 0         | 0         |
|                             | 58         | 0        | 0         | 0         | 0         |
| $10^{-6}$                   | 59         | 0        | 0         | 0         | 0         |
|                             | 60         | 0        | 0         | 0         | 0         |

$10^{-4} / 0.2 \text{ ml}$

$10^{4.7} \text{ TC}_{50} / \text{gm}$

Cypr 6441 Frankony, KP36, Large bottle large inoculum

Bloody diarrhea - dead 7 days after i.c.c. injection of  $10^{7.2}$  T<sub>250</sub>

Repeat this - add 2,000 U penicillin + 2mg streptomycin - dead after several hours - culture; if cultured ~~etc.~~ repeat

PCN 5MC in above concentration added 5/20/54 ampule broken 5/20/54 Pmp. broken by accident

Tubes Used Series 76 of 5/4/54

Stored A-7-3

| Dilution & Amount | Tube No. | 5/4  | 5/6 | 5/8 | 5/20 |
|-------------------|----------|------|-----|-----|------|
|                   |          | 2    | 4   | 6   | 8    |
| 0.2ml / $10^{-1}$ | 76-61    | cont |     |     |      |
|                   | 62       | cont |     |     |      |
|                   | 63       | cont |     |     |      |
| $10^{-2}$         | 64       | "    |     |     |      |
|                   | 65       | "    |     |     |      |
|                   | 66       | "    |     |     |      |
| $10^{-3}$         | 67       | "    |     |     |      |
|                   | 68       | "    |     |     |      |
|                   | 69       | 0    | 0   | 0   | 0    |
| $10^{-4}$         | 70       | 0    | 0   | 0   | 0    |
|                   | 71       | 0    | 0   | 0   | 0    |
| $10^{-5}$         | 72       | 0    | 0   | 0   | 0    |
|                   | 73       | 0    | 0   | 0   | 0    |
| $10^{-6}$         | 74       | 0    | 0   | 0   | 0    |
|                   | 75       | 0    | 0   | 0   | 0    |

MAY 18 1954

Org. 6443 Frazer Series, KP 36, large bottle large inc.

Monkey paralyzed 13 days after inoculation  $10^{7.2}$   
 with Frazer KP-36 sacrificed on 5/18/54  
 & ground into 10% susp. centrifuged super-  
 natant stored A-77

Inoculated Series 8/9 5/10/54

| Dilution & Amount  | Tube   | 5/20 | 5/22 | 5/24 | 5/26 |
|--------------------|--------|------|------|------|------|
|                    | 770    | 2    | 4    | 6    | 8    |
| 0.2 ml / $10^{-1}$ | 81-109 | 2    | 177  |      |      |
|                    | 110    | 2    | 177  |      |      |
|                    | 111    | 2    | 177  |      |      |
| $10^{-2}$          | 112    | 2    | 177  |      |      |
|                    | 113    | 4    |      |      |      |
|                    | 114    | 4    |      |      |      |
| $10^{-3}$          | 115    | 0    | 177  |      |      |
|                    | 116    | 0    | 177  |      |      |
|                    | 117    | 0    | 177  |      |      |
| $10^{-4}$          | 118    | 0    | 0    | 0    | 0    |
|                    | 119    | 0    | 177  |      |      |
| $10^{-5}$          | 120    | 0    | 0    | 0    | 0    |
|                    | 121    | 0    | 0    | 0    | 0    |
| $10^{-6}$          | 122    | 0    | 0    | 0    | 0    |
|                    | 123    | 0    | 0    | 0    | 0    |

$10^{-4}$  / 0.2 ml

$10^{4.7}$  TCID<sub>50</sub>/gm

MAY 17 1954

Cypr. 6445 Foxhoney Series, KP36, large bottle  
large inoculum

Paralysis 11 days after ice injection of  $10^{7.2}$  TC<sub>50</sub>

Monkey killed 5/16/54

Sections of cord ground 5/17/54 into 10 g soup  
centrifuged stored A-4-8

Tube Feed Series 81 of 5/10/54

| Dilutions<br>& Amount | Tube<br>No. | 5/9 | 5/11 | 5/13 | 5/15 |
|-----------------------|-------------|-----|------|------|------|
| 0.2 ml / $10^{-1}$    | 51-46       | 2   | 0/1  |      |      |
|                       | 47          | 2   | 1/1  |      |      |
|                       | 48          | 2   | 0/1  |      |      |
| $10^{-2}$             | 49          | 2   | 0/1  |      |      |
|                       | 50          | 3   | 1/1  |      |      |
|                       | 51          | 3   | 0/1  |      |      |
| $10^{-3}$             | 52          | 0   | 0/1  |      |      |
|                       | 53          | 0   | 0/1  |      |      |
|                       | 54          | 3   | 0/1  |      |      |
| $10^{-4}$             | 55          | 0   | 0    | 0    | 0    |
|                       | 56          | 0   | 3    | 0/1  |      |
| $10^{-5}$             | 57          | 0   | 3    | 0/1  |      |
|                       | 58          | 0   | 0    | 0    | 0    |
| $10^{-6}$             | 59          | 0   | 0    | 0    | 0    |
|                       | 60          | 0   | 0    | 0    | 0    |

|   |   |   |   |         |
|---|---|---|---|---------|
| 3 | 0 | 5 | 0 |         |
| 1 | 1 | 2 | 1 | 66      |
| 1 | 1 | 1 | 2 | 33      |
| 0 | 2 | 0 |   | 66-50-1 |

$10^{4.5}$  / 0.2 ml  
 $10^{5.2}$  TC<sub>50</sub> / Gm

STANDARD B & P "NOISEAR"

& P "NOISEAR"

Cypr. 6449 - Mahoney - Subpassage from  
Cypr 6181

Dead 24 days after intracerebral injection

On 5/29/54

sections of cereb. ground into 10% susp centrifuged  
supernatant stored C-4-4

On 5/19/54

5/20/54

Ink test Series 87 of 5/18/54 Series 88 of 5/19/54 Series 89 of 5/20/54

| Inst. Tested                 | Tube No. | 5/30 | 6/1   | 6/3  | 6/5  | 6/7 |
|------------------------------|----------|------|-------|------|------|-----|
| Dil. & Amount                |          | 1    | 3     | 5    | 7    | 9   |
| 2.2 ml /<br>10 <sup>-1</sup> | 87-801   | 0    | 0     | 0    | 0    | 0   |
|                              | 802      | 0    | 0     | 0    | 0    | 0   |
|                              | 803      | 0    | 0 day | deg. |      |     |
| 10 <sup>-2</sup>             | 804      | 0    | 0     | 0    | deg. |     |
|                              | 805      | 0    | 0     | 0    | 0    | 0   |
|                              | 806      | 0    | 0     | 0    | 0    | 0   |
| 10 <sup>-3</sup>             | 87-807   | 0    | 0     | 0    | 0    | 0   |
|                              | 808      | 0    | 0     | 0    | 0    | 0   |
|                              | 809      | 0    | 0     | 0    | 0    | 0   |
| 10 <sup>-4</sup>             | 810      | 0    | 0     | 0    | 0    | 0   |
|                              | 88-811   | 0    | 0     | 0    | 0    | 0   |
|                              | 812      | 0    | 0     | 0    | 0    | 0   |
| 10 <sup>-5</sup>             | 89-813   | 0    | 0     | 0    | 0    | 0   |
|                              | 814      | 0    | 0     | 0    | 0    | 0   |
| 10 <sup>-6</sup>             | 88-815   | 0    | 0     | 0    | 0    | 0   |
|                              | 815      | 0    | 0     | 0    | 0    | 0   |

Cym 6451 Mahoney KP34 - Progeny test series

Diarrhea & convulsions 2 days after oral injection  
of  $10^{3-9}$  red<sub>82</sub> from Cym 6189

Tube Test Series 76 of 5/4/54

STUD A-7-3

| Dilution & Amount  | Tube No. | $\frac{2}{3/4}$ | $\frac{4}{7/6}$ | $\frac{6}{5/4}$ | $\frac{8}{5/20}$ |
|--------------------|----------|-----------------|-----------------|-----------------|------------------|
| $1.2ml. / 10^{-1}$ | 76-76    | 0               | 0               | 0               | 0                |
|                    | 77       | 0               | 0               | 0               | 0                |
|                    | 78       | 0               | 0               | 0               | 0                |
| $10^{-2}$          | 79       | 0               | 0               | 0               | 0                |
|                    | 80       | 0               | 0               | 0               | 0                |
|                    | 81       | 0               | 0               | 0               | 0                |
| $10^{-3}$          | 82       | 0               | 0               | 0               | 0                |
|                    | 83       | 0               | 0               | 0               | 0                |
|                    | 84       | 0               | 0               | 0               | 0                |
| $10^{-4}$          | 85       | 0               | 0               | 0               | 0                |
|                    | 86       | 0               | 0               | 0               | 0                |
| $10^{-5}$          | 87       | 0               | 0               | 0               | 0                |
|                    | 88       | 0               | 0               | 0               | 0                |
| $10^{-6}$          | 89       | 0               | 0               | 0               | 0                |
|                    | 90       | 0               | 0               | 0               | 0                |

Cyn. 6452 Frankony Series - Progeny Test of KP 34

Paralysis 14 days after i.cer. injection of  $10^{3.9}$  TCID<sub>50</sub> from Cyn 6189

On 5/19/54 sections of cord ground into  $10\%$  susp. centrifuged stored A-4-5

Tubes Used Series 85 of 5/14/54

| <u>Concentration</u><br><u>Dilutions</u> | <u>Tubes</u><br><u>no.</u> | <u>7/23</u><br><u>2</u> | <u>7/25</u><br><u>4</u> | <u>7/27</u><br><u>6</u> | <u>7/29</u><br><u>8</u> | Discard |
|--|----------------------------|-------------------------|-------------------------|-------------------------|-------------------------|---------|
| 2.2ml / $10^{-1}$                        | 85-16                      | 3                       | 17                      |                         |                         |         |
|  | 17                         | 3-4 ml                  | 17                      |                         |                         |         |
|  | 18                         | 0-17                    | 0                       | 0                       | 0                       |         |
| $10^{-2}$                                | 19                         | 4                       |                         |                         |                         |         |
|  | 20                         | 4                       |                         |                         |                         |         |
|  | 21                         | 4                       |                         |                         |                         |         |
| $10^{-3}$                                | 22                         | 4                       |                         |                         |                         |         |
|  | 23                         | 2                       | 17                      |                         |                         |         |
|  | 24                         | 3                       | 17                      |                         |                         |         |
| $10^{-4}$                                | 25                         | 0                       | 4                       |                         |                         |         |
|  | 26                         | 2                       | 17                      |                         |                         |         |
| $10^{-5}$                                | 27                         | 0                       | 4                       |                         |                         |         |
|  | 28                         | 2                       | 17                      |                         |                         |         |
| $10^{-6}$                                | 29                         | 0                       | 0                       | 0                       | 0                       |         |
|  | 30                         | 0                       | 0                       | 0                       | 0                       |         |

$10^{-5.5}$  / 0.2ml

$10^{6.2}$  TCID<sub>50</sub> / gm.

Cyr. 6453 *Trakomy* - Progeny test of KP34

Gen. CNS signs 8 days after i.cer. injection of  
 $10^{3.9} \text{TCID}_{50}$  from Cyr 6189

Tubes used Series 75 + 76 of 5/4/54 struc e-1-4

| Dilutions +<br>Amount       | Tube<br>No. | 7/5 | 7/7    | 7/9           | 7/11 |
|-----------------------------|-------------|-----|--------|---------------|------|
| $0.2 \text{ ml.} / 10^{-1}$ | 76-240      | 0   | 0      | 0             | 0    |
|                             | 241         | 2   | resid? | off           | off  |
|                             | 242         | 3   | resid  | resid         | off  |
| $10^{-2}$                   | 243         | 3   | off    |               |      |
|                             | 244         | 4   |        |               |      |
|                             | 245         | 3   | off    |               |      |
| $10^{-3}$                   | 246         | 4   |        |               |      |
|                             | 247         | 3   | off    |               |      |
|                             | 248         | 3   | off    |               |      |
| $10^{-4}$                   | 249         | 0-? | off    |               |      |
|                             | 250         | 0-? | off    |               |      |
| $10^{-5}$                   | 251         | 0   | off    |               |      |
|                             | 252         | 0   | 2      | off resid off |      |
| $10^{-6}$                   | 253         | 0   | 4      |               |      |
|                             | 254         | 0   | 0      | 0             | 0    |

$10^{-6} / 0.2 \text{ ml}$

$10^{6.7} \text{TCID}_{50} / 6 \mu$

## Cyr 6454 Mahoney - Progeny Test of KP34

Extensive paralysis 8 days after i.cer. injection of  
 $10^{3.19}$  TC<sub>50</sub> from Cyr 6189

stored C-1-4

Tubes used Series 76 of 5/4/54

| Dilutions & Amount | Tube No. | 715 | 717   | 719   | 721   |
|--------------------|----------|-----|-------|-------|-------|
|                    |          | 2   | 4     | 6     | 8     |
| 0.2 ml / $10^{-1}$ | 76-255   | 4   |       |       |       |
|                    | 256      | 4   |       |       |       |
|                    | 257      | 1   | resid | resid | resid |
| $10^{-2}$          | 258      | 3   | TH    |       |       |
|                    | 259      | 4   |       |       |       |
|                    | 260      | 4   |       |       |       |
| $10^{-3}$          | 261      | 4   |       |       |       |
|                    | 262      | 4   |       |       |       |
|                    | 263      | 4   |       |       |       |
| $10^{-4}$          | 264      | 3   | TH    |       |       |
|                    | 265      | 2   | TH    |       |       |
| $10^{-5}$          | 266      | 2   | TH    |       |       |
|                    | 267      | 1   | TH    |       |       |
| $10^{-6}$          | 268      | 0   | 0     | 0     | 0     |
|                    | 269      | 0   | 0     | 3     | TH    |

$10^{-6}$  / 0.2 ml  
 $10^{6.7}$  TC<sub>50</sub> / 6 ml

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Expt. 6456 Makoy Series - Boogey Test  
of KP34

Sick monkey (diarrhea etc) - finally moribund 14 days after  
i.cer. injection of 10% susp. of Cyn 6191

On 5/19/54 sections of cord ground into 10% susp.  
andrifuged supernatant stored A-4-5

Tuberculin Series 85 of 5/14/54

| <u>Amount &amp;<br/>Dilutions</u> | <u>Tube<br/>No.</u> | <u>5/23</u> | <u>5/25</u> | <u>5/27</u> | <u>5/29</u> |
|-----------------------------------|---------------------|-------------|-------------|-------------|-------------|
|                                   |                     | <u>2</u>    | <u>4</u>    | <u>6</u>    | <u>8</u>    |
| 0.2 ml.<br>/10 <sup>-1</sup>      | 85-31               | 0           | 0           | 0           | 0           |
|                                   | 32                  | 0           | 0           | 0           | 0           |
|                                   | 33                  | 0           | 0           | 0           | 0           |
|                                   | 34                  | 0           | 0           | 0           | 0           |
| 10 <sup>-2</sup>                  | 35                  | 0           | 0           | 0           | 0           |
|                                   | 36                  | 0           | 0           | 0           | 0           |
|                                   | 37                  | 0           | 0           | 0           | 0           |
| 10 <sup>-3</sup>                  | 38                  | 0           | 0           | 0           | 0           |
|                                   | 39                  | 0           | 0           | 0           | 0           |
|                                   | 40                  | 0           | 0           | 0           | 0           |
| 10 <sup>-4</sup>                  | 41                  | 0           | 0           | 0           | 0           |
|                                   | 42                  | 0           | 0           | 0           | 0           |
| 10 <sup>-5</sup>                  | 43                  | 0           | 0           | 0           | 0           |
|                                   | 44                  | 0           | 0           | 0           | 0           |
| 10 <sup>-6</sup>                  | 45                  | 0           | 0           | 0           | 0           |

Discard

Cyn 6457 Monkey Series - Progeny Test of KP34

Bloody diarrhea - dying 10 days after rice infection  
of cats from Cyn 6191

Monkey killed 5/15/54

Sections of end ground 5/15/54 into  
10% susp. supernatant after centri-  
fugation stored A-6-5

Tubes used Series 81 of 5/10/54

| Dilutions<br>& Amount       | Tube<br>No. | 5/19 | 5/21  | 5/23 | 5/25 |
|-----------------------------|-------------|------|-------|------|------|
| 2.2ml.<br>/10 <sup>-1</sup> | 81.1        | 0    | 0     | 0    | 0    |
|                             | 2           | 0    | 0     | 0    | 0    |
|                             | 3           | 0    | 0     | 0    | 0    |
| 10 <sup>-2</sup>            | 4           | 0    | 0     | 0    | 0    |
|                             | 5           | 0    | 0     | 0    | 0    |
|                             | 6           | 0    | 0     | 0    | 0    |
| 10 <sup>-3</sup>            | 7           | 0    | 0     | 0    | 0    |
|                             | 8           | 0    | 0     | 0    | 0    |
|                             | 9           | 0    | 0     | 0    | 0    |
| 10 <sup>-4</sup>            | 10          | 0    | 0     | 0    | 0    |
|                             | 11          | 0    | 0     | 0    | 0    |
| 10 <sup>-5</sup>            | 12          | 0    | 0     | 0    | 0    |
|                             | 13          | 0    | cont. |      |      |
| 10 <sup>-6</sup>            | 14          | 0    | 0     | 0    | 0    |
|                             | 15          | 0    | 0     | 0    | 0    |

Pyri 6460 Leon KP-36 Intramuscular

Dead, with bloody diarrhea, 4 days after i.c. injection  
of  $10^{7.5} \text{TCID}_{50}$

Found dead 5/11/54

On 5/11/54 sections of eardrum into 10% susp.  
weighing 0.9 gm. centrifuged supernatant  
stated 0-1-1

Intramuscular Serum 74 of 5/3/54

| Dilution & Amount  | Tube No. | 5/3   | 5/5 | 5/7 | 5/9          |
|--------------------|----------|-------|-----|-----|--------------|
| 0.2 ml / $10^{-1}$ | 74       | 1 82  | 0   | 0   | 0            |
|                    |          | 2 83  | 0   | 2-3 | <del>0</del> |
|                    |          | 3 84  | 0   | 0   | 0            |
| $10^{-2}$          |          | 4 85  | 0   | 0   | 0            |
|                    |          | 5 86  | 0   | 0   | 0            |
|                    |          | 6 87  | 0   | 0   | 0            |
| $10^{-3}$          |          | 7 88  | 0   | 0   | 0            |
|                    |          | 8 89  | 0   | 0   | 0            |
|                    |          | 9 90  | 0   | 0   | 0            |
| $10^{-4}$          |          | 10 91 | 0   | 0   | 0            |
|                    |          | 11 92 | 0   | 0   | 0            |
| $10^{-5}$          |          | 12 93 | 0   | 0   | 0            |
|                    |          | 13 94 | 0   | 0   | 0            |
| $10^{-6}$          |          | 14 95 | 0   | 0   | 0            |
|                    |          | 15 96 | 0   | 0   | 0            |

$10^{0.8?} / 0.2 \text{ ml}$

$10^{1.5} \text{TCID}_{50} / \text{gm}?$

May 14, 1954

Expt. 6461 - Leon K.P. 36

Paralysis 7 days after i.cer. injection of  $10^{7.5}$  TC<sub>50</sub> D<sub>10</sub>  
(Partial left lower)

5-14-54 - 10% susp of midlumbar + midcervical cord - O. Fgm

Strain A-5-7

Tubes used Series 75 of 5/4/54  
76 of 5/4/54  
77 of 5/5/54

Dilutions & Amount Tube No.

|                     |            | 5/16 | 5/18 | 5/20 | 5/22  | 5/24   | 5/26     |
|---------------------|------------|------|------|------|-------|--------|----------|
| 2.2 ml. / $10^{-1}$ | 75-401     | 0    | 0    | 0-1  | resid | resid  | resid    |
|                     | 402        | 0    | 0    | 0    | 1-2   | resid  | off      |
|                     | 403        | 0    | 0    | 0    | 0     | 0      | off      |
|                     | 404        | 0    | 0    | 0    | 0     | 2-3    | 4. resid |
| $10^{-2}$           | 405        | 0    | 0    | 0    | 2-3?  | 1-3    | 4. resid |
|                     | 406        | 0    | 0    | 0    | 0     | 1-3    | 1-3      |
|                     | 407        | 0    | 0    | 0    | 0     | 0      | 0-1?     |
| $10^{-3}$           | 408        | 0    | 0    | 0    | 2?    | 4, off | off      |
|                     | Pass + 409 | 0    | 0    | 0    | 2?    | off    | off      |
|                     | 410        | 0    | 0    | 0    | 0     | 0      | same     |
| $10^{-4}$           | 411        | 0    | 0    | 0    | 0     | 0      | same     |
|                     | Pass-0 412 | 0    | 0    | 0    | 0     | 0      | 0-1      |
| $10^{-5}$           | 413        | 0    | 0    | 0    | 0     | 0      | 0        |
|                     | 77-414     | 0    | 0    | 0    | 0     | 0      | 0 vac    |
| $10^{-6}$           | 415        | 0    | 0    | 0    | 0     | 0      | 0 vac    |

shows  
1-2

2/28/54 no change in tubes since 5/26

Pass ? tubes

(over)

5/28/54

Confirmatory passage

Material  
Passaged

|                     |          | 5/29 | 5/30 | 6/1 | 6/3                              | 6/2 |
|---------------------|----------|------|------|-----|----------------------------------|-----|
|                     |          | 1    | 2    | 4   | 6                                | 8   |
| Tube 75-409 0.2ml → | 88-701 4 | off  | off  | off | harvested 6/1/54<br>stored C-7-3 |     |
|                     | 702 3    |      |      |     |                                  |     |
|                     | 88-703 0 | 0    | 0    | 0   | 0                                | 0   |
| Tube 76-412 0.2ml → | 704 0    | 0    | 0    | 0   | 0                                | 0   |

Org 6465 Leon Series, KP 36

Sickly monkey - found ~~dead~~<sup>dying</sup> 10 days after i.cer. injection  
of  $10^{7.5}$  TCID<sub>50</sub>

Monkeys killed 5/17/54  
section of cord ground into 10% susp.  
centrifuged supernatant stored A-4-3

Tuberculin Series 81 of 5/10/54

| Dilutions<br>& Amount  | Tubes<br>710. | 719<br>2 | 721<br>4 | 722<br>5 | 723<br>8 |
|------------------------|---------------|----------|----------|----------|----------|
| 0.2 ml.<br>/ $10^{-1}$ | 81-61         | 0        | 0        | 0        | 0        |
|                        | 62            | 0        | 0        | 0        | 0        |
|                        | 63            | 0        | 0        | 0        | 0        |
| $10^{-2}$              | 64            | 0        | 0        | 0        | 0        |
|                        | 65            | 0        | 0        | 0        | 0        |
|                        | 66            | 0        | 0        | 0        | 0        |
| $10^{-3}$              | 67            | 0        | 0        | 0        | 0        |
|                        | 68            | 0        | 0        | 0        | 0        |
|                        | 69            | 0        | 0        | 0        | 0        |
| $10^{-4}$              | 70            | 0        | 0        | 0        | 0        |
|                        | 71            | 0        | 0        | 0        | 0        |
| $10^{-5}$              | 72            | 0        | 0        | 0        | 0        |
|                        | 73            | 0        | 0        | 0        | 0        |
| $10^{-6}$              | 74            | 0        | 0        | 0        | 0        |
|                        | 75            | 0        | 0        | 0        | 0        |

## Pyre 6466 Leon KP-36 Intracerebral

Sick monkey - died 4. days after i.cer injection  
of  $10^{2.5}$  TCID<sub>50</sub>

Found dead 5/11/54

On 5/11/54 sections of spinal cord weighing 0.8 gm.  
ground into  $10^7$  susp. centrifuged  
supernatant stored 0-1-1

Inoculation Series 74 of 5/3/54

| Dilution & Amount  | Date    | 5/3 | 5/5 | 5/7 | 5/9 |
|--------------------|---------|-----|-----|-----|-----|
|                    | 70.     | 2   | 4   | 6   | 8   |
| 0.2 ml / $10^{-1}$ | 74-1697 | 0   | 0   | 0   | 0   |
|                    | 1798    | 0   | 0   | 0   | 0   |
|                    | 1899    | 0   | 0   | 0   | 0   |
| $10^{-2}$          | 19100   | 0   | 0   | 0   | 0   |
|                    | 20101   | 0   | 0   | 0   | 0   |
|                    | 21102   | 0   | 0   | 0   | 0   |
| $10^{-3}$          | 22103   | 0   | 0   | 0   | 0   |
|                    | 23104   | 0   | 0   | 0   | 0   |
|                    | 24105   | 0   | 0   | 0   | 0   |
| $10^{-4}$          | 25106   | 0   | 0   | 0   | 0   |
|                    | 26107   | 0   | 0   | 0   | 0   |
| $10^{-5}$          | 27108   | 0   | 0   | 0   | 0   |
|                    | 28109   | 0   | 0   | 0   | 0   |
| $10^{-6}$          | 29110   | 0   | 0   | 0   | 0   |
|                    | 30111   | 0   | 0   | 0   | 0   |

Cypr. 6467 Leon Series, KP 36 - Large bottle  
large inocul

Found dead 11 days after i.cer. injection of  $10^{7.5}$  T<sub>90</sub>

On 5/18/54 sections of cord ground into 10 70  
sup. centrifuged supernatant stored  
A-4-8

Substituted Series 85/49 5/14/54

| Amount & Dilutions  | Tube<br>770. | Discard   |           |           |           |           |           | 6/1                 |
|---------------------|--------------|-----------|-----------|-----------|-----------|-----------|-----------|---------------------|
|                     |              | 5/23<br>2 | 5/25<br>4 | 5/27<br>6 | 5/29<br>8 | 5/30<br>9 | 6/1<br>11 |                     |
| 0.2 ml. / $10^{-1}$ | 85-46        | 0         | 0         | 0         | 0         | 0         | 0         | 0                   |
|                     | 47           | 0         | 0         | 0         | 0         | 0         | 0         | 0                   |
|                     | 48           | 0         | 0         | 0         | 0?        | 0-?       | Pass      | no inc. #<br>off rx |
| $10^{-2}$           | 49           | 0         | 0         | 0         | 0         | 0         | 0         | 0                   |
|                     | 50           | 0         | 0         | 0         | 0         | 0         | 0         | 0                   |
|                     | 51           | 0         | 0         | 0         | 0         | 0         | 0         | 0                   |
| $10^{-3}$           | 52           | 0         | 0         | 0         | 0         | 0         | 0         | 0                   |
|                     | 53           | 0         | 0         | 0         | 0         | 0         | 0         | 0                   |
|                     | 54           | 0         | 0         | 0         | 0         | 0         | 0         | 0                   |
| $10^{-4}$           | 55           | 0         | 0         | 0         | 0         | 0         | 0         | 0                   |
|                     | 56           | 0         | 0         | 0         | 0         | 0         | 0         | 0                   |
| $10^{-5}$           | 57           | 0         | 0         | 0         | 0         | 0         | 0         | 0                   |
|                     | 58           | 0         | 0         | 0         | 0         | 0         | 0         | 0                   |
| $10^{-6}$           | 59           | 0         | 0         | 0         | 0         | 0         | 0         | 0                   |
|                     | 60           | 0         | 0         | 0         | 0         | 0         | 0         | 0                   |

6/1/54  
Prot.  
Pass.

Tube  
770. 2 3 4 5 6 7

0.2 ml.  
85-48

85-13  
14

Harvested 6/4/54  
Harvest & freeze stored B-7-8

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Cyn. 6470 - Leon KP 37 Series

Found dead <sup>(A.M.)</sup> 42 hrs. after i.cer. injection of  $10^{7.2}$  T<sub>250</sub>  
 (Monkey ~~6470~~) In refig. till 7 P.M. when  
 Throat + cervical cord removed + stored in deep freeze.

Monkey ~~6470~~ <sup>dead</sup> 5/9/54  
 On 5/10/54 section of cord weighing 0.7 gm. ground  
 into 10% susp. Supernatant after centrifugation  
 stored dry ice box

Tubes Used Series 74 of 5/3/54

stored C-2-1

| Dilutions           | Tubes 74 | 5/12 | 5/14 | 5/16 | 5/18 |
|---------------------|----------|------|------|------|------|
| 0.2 ml. / $10^{-1}$ | 74-31    | 0    | 0    | 0    | 0    |
|                     | 32       | 0    | 0    | 0    | 0    |
|                     | 33       | 0    | 0    | 0    | 0    |
| $10^{-2}$           | 34       | 0    | 0    | 0    | 0    |
|                     | 35       | 0    | 0    | 0    | 0    |
|                     | 36       | 0    | 0    | 0    | 0    |
| $10^{-3}$           | 37       | 0    | 0    | 0    | 0    |
|                     | 38       | 0    | 0    | 0    | 0    |
|                     | 39       | 0    | 0    | 0    | 0    |
| $10^{-4}$           | 40       | 0    | 0    | 0    | 0    |
|                     | 41       | 0    | 0    | 0    | 0    |
| $10^{-5}$           | 42       | 0    | 0    | 0    | 0    |
|                     | 43       | 0    | 0    | 0    | 0    |
| $10^{-6}$           | 44       | 0    | 0    | 0    | 0    |
|                     | 45       | 0    | 0    | 0    | 0    |

## Cyn 6471 Leon KP-37 Intracerebral

Dead with bloody diarrhea 4 days after i.c. injection of  $10^{7.2}$  TCDD

Found dead 5/11/54

On 5/11/54 sections of soil weighing 0.8 gm ground into 10% susp. supernatant after centrifugation tested 0-1-1

Tube Test Series 74 of 5/3/54

| Dilution & Amount      | Tube No.  | 5/3 | 5/5 | 5/7 | 5/9 |
|------------------------|-----------|-----|-----|-----|-----|
| 0.2 ml.<br>/ $10^{-1}$ | 74-31 112 | 0   | 0   | 0   | 0   |
|                        | 32 113    | 0   | 0   | 0   | 0   |
|                        | 33 114    | 0   | 0   | 0   | 0   |
| $10^{-2}$              | 34 115    | 0   | 0   | 0   | 0   |
|                        | 35 116    | 0   | 0   | 0   | 0   |
|                        | 36 117    | 0   | 0   | 0   | 0   |
| $10^{-3}$              | 37 118    | 0   | 0   | 0   | 0   |
|                        | 38 119    | 0   | 0   | 0   | 0   |
|                        | 39 120    | 0   | 0   | 0   | 0   |
| $10^{-4}$              | 40 121    | 0   | 0   | 0   | 0   |
|                        | 41 122    | 0   | 0   | 0   | 0   |
| $10^{-5}$              | 42 123    | 0   | 0   | 0   | 0   |
|                        | 43 124    | 0   | 0   | 0   | 0   |
| $10^{-6}$              | 44 125    | 0   | 0   | 0   | 0   |
|                        | 45 126    | 0   | 0   | 0   | 0   |

Exp. 6472 - Leon KP37 - Large Bottle,  
Large inoculum

Paralyzed 16 days after i. cer. inoculation  
of  $10^{7.2}$  TC<sub>50</sub>

Killed 5/23/54

sections of cor. ground into 10% susp. on  
same day centrifuged supernatant stored  
C-4-3

Tubes Used

Serial 86 of 5/11/54

Materials

| <u>Tested Dil.</u>  | <u>Date</u> | <u>5/16</u> | <u>5/28</u> | <u>5/30</u> | <u>6/1</u> |
|---------------------|-------------|-------------|-------------|-------------|------------|
| <u>&amp; Amount</u> | <u>No.</u>  | <u>2</u>    | <u>4</u>    | <u>6</u>    | <u>8</u>   |
| 0.2 ml.             | 86-22       | 0           | 4           |             |            |
|                     | 26          | 0           | 2           | off         |            |
| 10 <sup>-1</sup>    | 27          | 0           | 4           |             |            |
|                     | 28          | 0           | 4           |             |            |
| 10 <sup>-2</sup>    | 29          | 0           | 2           | off         |            |
|                     | 30          | 0           | 0           | off         | off        |
|                     | 31          | 0           | 0           | off         | off        |
| 10 <sup>-3</sup>    | 32          | 0           | 0           | off         |            |
|                     | 33          | 0           | 0           | 0           | 0          |
|                     | 34          | 0           | 0           | 0           | 0          |
| 10 <sup>-4</sup>    | 35          | 0           | 0           | 0           | 0          |
|                     | 36          | 0           | 0           | 0           | 0          |
| 10 <sup>-5</sup>    | 37          | 0           | 0           | 0           | 0          |
|                     | 38          | 0           | 0           | 0           | 0          |
| 10 <sup>-6</sup>    | 39          | 0           | 0           | 0           | 0          |

10<sup>-3.3</sup> / 0.2 ml

10<sup>4</sup> TC<sub>50</sub> / 6 ml

MAY 12 1954

Cyno. 6476 Leon, KP 37 - Large bottle - large inoc

Dead 5 days after i.c. injection of  $10^{7.2}$  r.c.f.  
 No paralysis; sick monkey

Tubes used Series 76 of 5/4/54

stored A-7-3

| Dilutions & Amount  | Tube No. | 5/4   | 5/6 | 5/8 | 5/20 |
|---------------------|----------|-------|-----|-----|------|
|                     |          | 2     | 4   | 6   | 8    |
| 0.2 ml. / $10^{-1}$ | 76-91    | 0     | 0   | 0   | 0    |
|                     | 92       | cont. |     |     |      |
|                     | 93       | 0     | 0   | 0   | 0    |
| $10^{-2}$           | 94       | 0     | 0   | 0   | 0    |
|                     | 95       | 0     | 0   | 0   | 0    |
|                     | 96       | 0     | 0   | 0   | 0    |
| $10^{-3}$           | 97       | 0     | 0   | 0   | 0    |
|                     | 98       | 0     | 0   | 0   | 0    |
|                     | 99       | 0     | 0   | 0   | 0    |
| $10^{-4}$           | 100      | 0     | 0   | 0   | 0    |
|                     | 101      | 0     | 0   | 0   | 0    |
| $10^{-5}$           | 102      | 0     | 0   | 0   | 0    |
|                     | 103      | 0     | 0   | 0   | 0    |
| $10^{-6}$           | 104      | 0     | 0   | 0   | 0    |
|                     | 105      | 0     | 0   | 0   | 0    |

MAY 21 1954

Cyrt. 6477 Leon Series, KP 37, Large bottle  
large inoculum

Dead 11 days (diarrhea) after i.c. injection of  $10^{7.2}$  ~~7.2~~

On 5/18/54 sections of end ground into 10% susp.  
centrifuged supernatant stored A-48

Tuberculin Series 85 of 5/14/54

| <u>Amount x</u><br><u>Dilutions</u> | <u>Tube</u><br><u>No.</u> | $\frac{5}{23}$<br><u>2</u> | $\frac{5}{25}$<br><u>4</u> | $\frac{5}{27}$<br><u>6</u> | $\frac{5}{29}$<br><u>8</u> ← Discard |
|-------------------------------------|---------------------------|----------------------------|----------------------------|----------------------------|--------------------------------------|
| 0.2 ml.<br>$10^{-1}$                | 55-61                     | 0                          | 0                          | 0                          | 0                                    |
|                                     | 62                        | 0                          | 0                          | 0                          | 0                                    |
|                                     | 63                        | 0                          | 0                          | 0                          | 0                                    |
| $10^{-2}$                           | 64                        | 0                          | 0                          | 0                          | 0                                    |
|                                     | 65                        | 0                          | 0                          | 0                          | 0                                    |
|                                     | 66                        | 0                          | 0                          | 0                          | 0                                    |
| $10^{-3}$                           | 67                        | 0                          | 0                          | 0                          | 0                                    |
|                                     | 68                        | 0                          | 0                          | 0                          | 0                                    |
|                                     | 69                        | 0                          | 0                          | 0                          | 0                                    |
| $10^{-4}$                           | 70                        | 0                          | 0                          | 0                          | 0                                    |
|                                     | 71                        | 0                          | 0                          | 0                          | 0                                    |
| $10^{-5}$                           | 72                        | 0                          | 0                          | 0                          | 0                                    |
|                                     | 73                        | 0                          | 0                          | 0                          | 0                                    |
| $10^{-6}$                           | 74                        | 0                          | 0                          | 0                          | 0                                    |
|                                     | 75                        | 0                          | 0                          | 0                          | 0                                    |

Opn. 6479 - Brunkide Order Chimp Series  
 K P<sub>5</sub>, large bottles, large inocula

Monkey paralyzed 11 days after inoculation of 10<sup>8.2</sup> TC<sub>50</sub>  
 Brunkide Order Chimp Virus K P<sub>5</sub>

Sacrificed 5/18/54 & sections of cord ground into 10%  
 susp. centrifuged supernatant stored A-7-4

Tubes Used Series 81 of 5/10/54

| Dilutions & Amount       | Tubes used | 5/20 | 5/22 | 5/24 | 5/26 | 5/28 |
|--------------------------|------------|------|------|------|------|------|
|                          |            | 2    | 4    | 6    | 8    | 10   |
| 0.2ml / 10 <sup>-1</sup> | 91-124     | 0    | 2    | 2    |      |      |
|                          | 125        | 0    | 3    | 2    |      |      |
|                          | 126        | 0    | 2    | 2    |      |      |
| 10 <sup>-2</sup>         | 127        | 0    | 0    | 3    | 2    |      |
|                          | 128        | 0    | 0    | 0    | 2    |      |
|                          | 129        | 0    | 0    | 0    | 2    |      |
| 10 <sup>-3</sup>         | 130        | 0    | 0    | 0    | 0    | 0    |
|                          | 131        | 0    | 0    | 0    | 0    | 0    |
|                          | 132        | 0    | 2    |      |      |      |
| 10 <sup>-4</sup>         | 133        | 0    | 0    | 0    | 0    | 0    |
|                          | 134        | 0    | 0    | 0    | 0    | 0    |
| 10 <sup>-5</sup>         | 135        | 0    | 0    | 0    | 0    | 0    |
|                          | 136        | 0    | 0    | 0    | 0    | 0    |
| 10 <sup>-6</sup>         | 137        | 0    | 0    | 0    | 0    | 0    |
|                          | 138        | 0    | 0    | 0    | 0    | 0    |

10<sup>-2.5</sup> / 0.2ml  
 10<sup>3.2</sup> TC<sub>50</sub> / 6ml

Pyre 6480 Brunhilde - Green Chimp, KPs

Paralysis 6 days after i.c.v. injection of  $10^{8.2}$  TC<sub>50</sub>

Strain C-1-4

Subs. Tissue Series 76 of 5/4/54

| Dilutions & Amount     | Tube No. | 7/5<br>2. | 7/7<br>4 | 7/9<br>6 | 7/11<br>8 |
|------------------------|----------|-----------|----------|----------|-----------|
| 0.2 ml.<br>/ $10^{-1}$ | 76-270   | 1         | 1/1      |          |           |
|                        | 271      | 2         | 1/1      |          |           |
|                        | 272      | 1         | 1/1      |          |           |
| $10^{-2}$              | 273      | 1         | 1/1      |          |           |
|                        | 274      | 2         | 1/1      |          |           |
|                        | 275      | 1         | 1/1      |          |           |
| $10^{-3}$              | 276      | 0         | 1/1      |          |           |
|                        | 277      | 1         | 1/1      |          |           |
|                        | 278      | 1         | 1/1      |          |           |
| $10^{-4}$              | 279      | 0         | 1/1      |          |           |
|                        | 280      | 0         | 1/1      |          |           |
| $10^{-5}$              | 281      | 0         | 0        | 0        | 0         |
|                        | 282      | 0         | 1/1      |          |           |
| $10^{-6}$              | 283      | 0         | 0        | 0        | 0         |
|                        | 284      | 0         | 1/1      |          |           |

$10^{-5.5}$  / 0.2 ml

$10^{6.2}$  TC<sub>50</sub> / gm

Cypr. 6484 Brunkiae Endothelium Serum, KPS

STANDARD B & P "NOTEAR"

Monkey paralyzed 11 days after inoculation  
Brunkiae Endothelium Serum KPS

10<sup>8.2</sup> TCD<sub>50</sub>

Disrupted 5/18/54 sections of cord ground into 10%  
soup. Unrefrigerated supernatant stored A-7-4

Tubes used Serial 51 of 5/10/54

| Dilutions & Amount        | Tubes used | 5/20 | 5/22 | 5/24 | 5/26 |
|---------------------------|------------|------|------|------|------|
|                           |            | 2    | 2    | 6    | 2    |
| 0.2 ml / 10 <sup>-1</sup> | 81-139     | 1    | 0    |      |      |
|                           | 140        | 0    | 0    |      |      |
|                           | 141        | 2    | 0    |      |      |
| 10 <sup>-2</sup>          | 142        | 0    | 0    | 2    | void |
|                           | 143        | 2    | 0    |      |      |
|                           | 144        | 0    | 0    |      |      |
| 10 <sup>-3</sup>          | 145        | 0    | 2    | 0    |      |
|                           | 146        | 0    | 0    | 0    | 0    |
|                           | 147        | 0    | 0    | 0    | 0    |
| 10 <sup>-4</sup>          | 148        | 0    | 4    |      |      |
|                           | 149        | 0    | 0    | 4    |      |
| 10 <sup>-5</sup>          | 150        | 0    | 0    | 0    | 0    |
|                           | 151        | 0    | 0    | 0    | 0    |
| 10 <sup>-6</sup>          | 152        | 0    | 0    | 0    | 0    |
|                           | 153        | 0    | 0    | 0    | 0    |

|   |   |   |   |
|---|---|---|---|
| 3 | 0 | 6 | 0 |
| 1 | 2 | 3 | 2 |
| 2 | 0 | 2 | 2 |
| 0 | 2 | 0 |   |
| 0 | 2 | 0 |   |

10<sup>-4</sup> / 0.2 ml  
10<sup>4.7</sup> TCD<sub>50</sub>/cm

STANDARD B & P "NOTEAR"

Expt. 6485 Brunhilde Enders Chimp Series #15  
 Partial par. of lowers 10 days after i.c. injection of  
 $10^{8.2}$  TCDSO

Monkey killed 5/17/54  
 sections of cord ground into 10% susp. 5/17/54  
 centrifuged stored A-4-3

Tube Test Series 81 of 5/10/54

| Dilutions                   | Tube  | 5/19 | 5/21 | 5/23 | 5/25 | 5/27 |
|-----------------------------|-------|------|------|------|------|------|
| Amount                      | No.   | 2    | 4    | 6    | 8    | 10   |
| $2.2 \text{ ml.} / 10^{-1}$ | 81-76 | 0    | 0    | 0    | 0    | 0    |
|                             | 77    | 0    | 0    | 0    | 0    | 0    |
|                             | 78    | 0    | 0    | 0    | 0    | 0    |
| $10^{-2}$                   | 79    | 0    | 0    | 0    | 0    | 0    |
|                             | 80    | 0    | 0    | 0    | 0    | 0    |
|                             | 81    | 0    | 0    | 0    | 0    | 0    |
| $10^{-3}$                   | 82    | 0    | 0    | 0    | 0    | 0    |
|                             | 83    | 0    | 0    | 0    | 0    | 0    |
|                             | 84    | 0    | 0    | 0    | 0    | 0    |
| $10^{-4}$                   | 85    | 0    | 0    | 0    | 0    | 0    |
|                             | 86    | 0    | 0    | 0    | 0    | 0    |
| $10^{-5}$                   | 87    | 0    | 0    | 0    | 0    | 0    |
|                             | 88    | 0    | 0    | 0    | 0    | 0    |
| $10^{-6}$                   | 89    | 0    | 0    | 0    | 0    | 0    |
|                             | 90    | 0    | 0    | 0    | 0    | 0    |

Note - monkey paralyzed

May 14, 1954

Cyr. 6487 - Brunhilde - Enders - Group KPS

Partial par. both lowers - 7 days after i.cer. infection  
of  $10^{8.2}$   $\text{TCID}_{50}$

5-14-54 - 10% susp. of medullar & midcervical - 0.8 gm

Strain A-57

Tubes used Series 774/5/2/54

| Dilutions & Amount  | Tube No. | 5/16     | 5/18     | 5/20     | 5/22     |
|---------------------|----------|----------|----------|----------|----------|
|                     |          | <u>2</u> | <u>4</u> | <u>6</u> | <u>8</u> |
| 0.2 ml. / $10^{-1}$ | 77-416   | 0        | off      |          |          |
|                     | 417      | 0        | off      |          |          |
|                     | 418      | 0        | off      |          |          |
| $10^{-2}$           | 419      | 0        | 0        | off      |          |
|                     | 420      | 0        | 0        | off      | 0        |
|                     | 421      | 0        | 0        | off      |          |
| $10^{-3}$           | 422      | 0        | 0        | over 0   | 0        |
|                     | 423      | 0        | 0        | 0        | 0        |
|                     | 424      | 0        | 0        | 0        | 0        |
| $10^{-4}$           | 425      | 0        | 0        | 0        | 0        |
|                     | 426      | 0        | over 0   | over 0   | 0        |
| $10^{-5}$           | 427      | 0        | over 0   | over 0   | 0        |
|                     | 428      | 0        | 0        | 0        | 0        |
| $10^{-6}$           | 429      | 0        | 0        | 0        | 0        |
|                     | 430      | 0        | 0        | 0        | 0        |

$10^{-2.3}$  / 0.2 ml  
 $10^3$   $\text{TCID}_{50}$  / gm

MAY 11 1954

Pyre. 6486 Brunkides & Evans Chimp, K85  
Large Bitch Large Insulinum

Sick 2 + Dead 1 of pneumonia 3 days after  
i.cer. injection of  $10^{8.2}$  TC<sub>50</sub>

Found dead 5/10/54

On 5/11/54 sections of spinal cord weighing 1.2 gm.  
ground into 10% susp. centrifuged  
supernatant stored C-1-1

| Tubes used         | Serial 74 of 5/3/54 | 5/12 (2) | 5/15 (4) | 5/17 (6) | 5/19 (8) |
|--------------------|---------------------|----------|----------|----------|----------|
| 2.2 ml / $10^{-1}$ | 74-46 127           | 0        | OH       |          |          |
|                    | 47 128              | 0        | OH       |          |          |
|                    | 48 129              | 0        | OH       |          |          |
| $10^{-2}$          | 49 130              | 0        | 0        | OH       |          |
|                    | 50 131              | 0        | 0        | 0        | 0        |
|                    | 51 132              | 0        | 0        | OH       |          |
| $10^{-3}$          | 52 133              | 0        | 0        | 0        | 0        |
|                    | 53 134              | 0        | 0        | 0        | 0        |
|                    | 54 135              | 0        | 0        | 0        | 0        |
| $10^{-4}$          | 55 136              | 0        | 0        | 0        | 0        |
|                    | 56 137              | 0        | 0        | 0        | 0        |
| $10^{-5}$          | 57 138              | 0        | 0        | 0        | 0        |
|                    | 58 139              | 0        | 0        | 0        | 0        |
| $10^{-6}$          | 59 140              | 0        | 0        | 0        | 0        |
|                    | 60 141              | 0        | 0        | 0        | 0        |

$10^{-2.3}$  / 0.2 ml

$10^{3.0}$  TC<sub>50</sub> / gm.

Cypr 6488 Brunkhede Enders  
Chump Virus, KP5

Dead 23 days after i.cer. injection of  $10^{8.27 \pm 0.50}$   
No previous paralysis or other signs.

found dead  
Monkey ~~kidney~~ 5/30/54 sections of cord & ground to  
10% susp. 5/31/54 centrifuged & supernatant stored C-4-4

Tubes used Series 91 of 5/24/54

| Final Titered Tube           | Dil. Amount | Tube No. | 6/3 | 6/5 | 6/7 | 6/9 | <del>6/11</del><br><del>10</del> |
|------------------------------|-------------|----------|-----|-----|-----|-----|----------------------------------|
| 2.27ml.<br>/10 <sup>-1</sup> |             | 91-1     | 0   | 0   | 0   | 0   |                                  |
|                              |             | 2        | 0   | 0   | 0   | 0   |                                  |
|                              |             | 3        | 0   | 0   | 0   | 0   |                                  |
| 10 <sup>-2</sup>             |             | 4        | 0   | 0   | 0   | 0   |                                  |
|                              |             | 5        | 0   | 0   | 0   | 0   |                                  |
|                              |             | 6        | 0   | 0   | 0   | 0   |                                  |
| 10 <sup>-3</sup>             |             | 7        | 0   | 0   | 0   | 0   |                                  |
|                              |             | 8        | 0   | 0   | 0   | 0   |                                  |
|                              |             | 9        | 0   | 0   | 0   | 0   |                                  |
| 10 <sup>-4</sup>             |             | 10       | 0   | 0   | 0   | 0   |                                  |
|                              |             | 11       | 0   | 0   | 0   | 0   |                                  |
| 10 <sup>-5</sup>             |             | 12       | 0   | 0   | 0   | 0   |                                  |
|                              |             | 13       | 0   | 0   | 0   | 0   |                                  |
| 10 <sup>-6</sup>             |             | 14       | 0   | 0   | 0   | 0   |                                  |
|                              |             | 15       | 0   | 0   | 0   | 0   |                                  |