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Stockholm, Sweden
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Professor Joshua Lederberg
Laboratory of Microbial Genetics
The University of Wisconsin
Madison 6, Wis.

Dear Professor Lederberg,

I have sent you to-day my 12 selected typhi-murium phages and 41 cultures representing 22 of the established phage types of *S. typhi murium*. I am not able to send any representative of type 17 because the only strain I had at my disposal was lost. I have not included strains of type 23 as I am no longer quite convinced that this is an independent stable type.

I hope you will excuse my long delay in sending the phages and cultures. The reason is that I took over a new department last year and therefore have not had time to control these phages until now. With the exception of a couple of small unimportant deviations, the typing results I now obtained completely corresponded to the results I obtained in 1947 and 1948.

The ampullae of phages that I am sending, I brought with me to London in 1948 when visiting professor Felix. I don't hardly believe that the transportations caused any weakening of the lytic effect of the phages. I wish to mention, however, that phage 2 and especially phage 28 B have shown a tendency to gradually weaken even when stored in a cold-storage room.

Am enclosing a list of the phages and their homologous strains and also of the different type representatives.

In order to obtain correct results, it is necessary to follow the directions I have given in my monograph. Especially important are the composition of the agar substratum (agar concentration 1.4 %) the amount of substratum in the Petri's dishes and how long they are dried, careful regard to critical test dilution, and length of incubation time.

Yours sincerely,


K. Lillieengen