

Hershey

November 21, 1948.

Dear

I am sending the following, as requested:

SN-13. *S. typhimurium*, monophasic II, an isoleucine-valineless mutant. Lysogenic for

SY-36 *S. gallinarum*. (= *sanguinarum*). Can be grown with thiamin or H_2 thiazole supplement.

Lysogenicity is conveniently tested for either with simple filtrates of SN-13 grown alone, or better, with SY-36 in broth. For large scale tests for this property, SY-36 can be plated on synthetic agar with B_1 , and single colonies of SN-13 picked to the pre-spread plates. Due to the nutritional deficiency, the SN-13 does not grow, but if it carries phage, the lysis of the indicator is apparent. Several hundred colonies of SN-13 from washed suspensions, and following various treatments, e.g. heavy UV treatment, cultivation in Phosphine GRN, or in arsenite, have all been lysogenic. It should be possible to set up tests where several hundred colonies of SN-13 can be allowed to form on a plate, and use the ring of lysis around the colony for large scale testing.

Sincerely,

Joshua Lederberg

CC: Luria
Hershey