

CARNEGIE INSTITUTION OF WASHINGTON  
DEPARTMENT OF GENETICS  
COLD SPRING HARBOR, LONG ISLAND, N. Y.

July 24, 1946

Dear Lederberg,

Just a word to let you know that K12 is sensitive to T1, T4, T5, T6, forming less good plaques than B does. It is also partially sensitive to T3, enough to give complete lysis and selection of mutants, but the plaques and the plaque counts are very ~~xxx~~ poor.

K12 is sensitive to some mutants of T7 present in about ~~10x4~~  $10^{-4}$  proportion in T7, and the same for T3. Interesting enough, the sensitivity to T3 and T7 mutants, is different and higher for some of the ~~R~~/1 mutants.

All attempts to isolate quadruple resistant mutants of B by growing together the double mutants have failed up to now. It becomes even more important to see if factor exchange can occur in combined phage resistant-biochemical deficient mutants.

Let me know when you have your double mutants from B, and possibly send me some double deficient mutants of K12 to make phage resistant.

Best regards,



S. E. Luria