

UNIVERSITY OF CALIFORNIA

VIRUS LABORATORY
BERKELEY 4, CALIFORNIA

June 11, 1959

Dr. J. Lederberg
Stanford University
Stanford, Calif.

Dear Dr. Lederberg:

We now have converted your lac-deletion mutant (W4032) from Hfr to F⁻ by mating it with an F⁻ that seems wild-type in the lac region and selecting M⁻P⁻lac⁻ S^r recombinants. We then mated a Hfr lac⁺ inducible with it, and found that the F⁻ acted like a constitutive strain (that is, upon entry of the lac⁺ locus in the absence of inducer there was a copious production of β-galactosidase which stopped after about 70 min more). It therefore seems that if the strain from which W4032 was derived was inducible the mutation must have changed it to constitutive. This is the result I would hope for from a deletion, since our earlier results show the constitutive allele to be the passive (recessive) one.

Fardees, A.S.

Would you be kind enough to send me the pedigree of the strain from which W4032 was derived, how it was obtained, and what evidence you have for its being a deletion?

My apologies for having to trouble you; However I hope the above information is a small compensation.

Sincerely,

Arthur

Arthur B. Fardees

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6/18/59