



DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE

PUBLIC HEALTH SERVICE

BETHESDA 14, MD.

Kalcher

5/28

Dear Joseph Ester,

I believe that I have found ^{of β -galactosidase} one of the genes for 'constitutive ones' and that is the gene for 4-epimerase. Correlation between 4-epimerase levels and levels of β -galactosidase in K_{12} grown on glycerol mineral medium is striking. Details will follow soon.

Sincerely
Herbert



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NATIONAL INSTITUTES OF HEALTH

Arbitrary rel. units on Protein Basis

Grown in Ammonium Mineral
Medium w. glycerol (\pm gal.)

4 Epim.

β galactosidase

3100 glycerol
3100 galactose

100

500
3000

3096 glycerol
3096 galactose

300

4500
3500

3264 glycerol
3264 galactose

25
40

150
2500

3099 glycerol
3099 galactose

0^{x)}
0^{x)}

30
3000

^{x)} Non-detectable