THE JOHNS HOPKINS UNIVERSITY
BALTIMORE 18, MARYLAND

McCOLLUM-PRATT INSTITUTE
INVESTIGATION OF
MICRONUTRIENT ELEMENTS

Kalckar
B. O Strain
Aug 25

Dear Josh + Esther

So far is a good fellow; we will miss him when he leaves. He has been witnessing a lot of difficulties with respect to our analyses of nucleotides & Gal-1-P. Determination of enzyme "titers" are much easier, except if the titers are small and high accuracy is required. Determination of bacterial depolimerase filtrates is complicated when it comes to using enzymatic method. I have decided to leave out of the present two papers analysis of complex polysaccharides, ATP, UDPG and Gal-1-P. In a few weeks we shall have most of these data on solid ground and will submit a detailed manuscript to J.B.C. Meanwhile the hereditary enzyme defects, galactosidase and the microbiological aspects of hereditary gal. sensitivity will be communicated to Proceed. National Academy of Sciences within a week. I am fed up with having these scripts around and since it is mainly due to lack of reproducibility of ATP & Gal-1-P analyses the obvious way out is to collect all these analyses in one or two new manuscripts.

In gal 3 there are many funny observations. β-galactosides are not able to induce the "labile enzymes." Free gal neither - but both are able to induce β-galactosidase. The "lytic" strain C7M on the other hand →

reacts the other way Galactose induces transferase or gal kinase (epimerase is "out") but scarcely any β-galactosidase. Propyl-β galactoside*) induces β-galactosidase but not transferase.

Paper I & II (for Proceedings) are being retyped.

I'd better finish for this time.

Sincerely

Stadman

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*) Excuse handwriting but it is in B & O train & they are trying to ~~put~~ hook a locomotive on!