Dear Josh & Esti,

Here are some additional facts about 3099. It is definitely defective in galactokinase, phosphogalactosyltransferase, and 4-galactosidase (the latter is a complete block). This is the case whether I grow on Minus with no exogenously added galactose or in nutrient medium. Even after 8 hrs additional exposure to 5% galactose there is no "comeback." β-galactosidase is also present in galactose-free medium (glycerol, Mg, minerals) although the amount are a good deal smaller (ca 5-6%) than in the presence of 5% galactose. There seems to be no basis for a permease block. Glucose-6-phosphate dehydrogenase and UDPG pyrophosphorylase are present. I am set for micro-galactose determination of the polyacrylamide of the various mutants. 3099 should be devoid of galactose.

I should send you a scheme with ( ) because I still cannot remember the origin of Gal 9. Please, send me nice charts ( ) just like you were writing a child and also yours further plans with Gal 9.
I would be greatly interested in the opportunity to work on Shigella sonnei. There are very few microorganisms with a well characterized cellular basis of their immunological characteristics. Some of the things that I would like to learn about are:

- The strain of Shigella sonnei
- The nature of the immune response
- The effect of immunization on the disease

My goal is to learn more about Shigella sonnei and its role in intestinal disease.