Kalckar

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~~INVESTIGATION OF~~
~~MICRONUTRIENT ELEMENTS~~

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Dear Joshua,

Here are a few questions where I need a little advice. We know now that the static phase in 3096 brought about by Gal-1-P accumulation is a true 'stasis' in the sense that the cells are viable (colony counting after serial dil.). Yet, if these cells are subjected to penicillin (still in the presence of galactose and glycerol) they become non viable. This happens after 10 hours exposure to penicillin (80 units per ml culture). The turbidity does not fall it stays constant (3096 grown in glycerol ($\bar{5}$ gal) loses turbidity rapidly in penicillin glycerol). It might of course be of interest for an understanding of the physiology of what I call "gal. induced bacteriostasis" to know for sure ~~that~~ this type of "stasis" does not protect against penicillin. In which way would you recommend us to alter our conditions. More penicillin and shorter exposure? I suppose at least shorter exposure. x)

The lab is still in the long phase of being set up and since hampers of course still the capacity to do experiments.

Sincerely

Herman

P.S.

x) We tried 400 U/ml for 3-4 hrs. Complete killing of the 'static' cells although turb did not fall more than 10-15% at the time of dilution & plating.