

Physical Chemistry Laboratory,

South Parks Road,

Oxford.

20th July 1954

Dear Professor Lederberg,

We have despatched by air to you a culture on agar of Bact. lactis aerogenes (aerobacter aerogenes). In an ammonium sulphate-glucose synthetic medium an inoculum of the order of magnitude of a million cells/ml. should show a lag of about 4-7 days after any slight growth due to "carry over" etc. On minimal medium-D-arabinose-agar plates fully positive colonies should take a number of days to develop. Microcolonies of course appear rapidly.

We had not a fresh "trained" culture available but 5-10 passages through the D-arabinose minimal medium (quite quick after the first) give a strain which is pretty stable for numerous passages through glucose. I do not believe any strain is ever wholly stable and I suspect that the arabinose positive strains would nearly always require freshening up by passage through arabinose after storage in broth or on agar.

Yours sincerely,

C. N. Hinshelwood