#863 nd

Transfer from liquid minimal : complete + lysine + (cs) pantothenate 4/2/79.

Jim Wilson called 4/2/79 & say the gene for lysine is dead & nd is now homokaryotic for pan.

His retransfer grew about 1/2" & "died" as far as growth was concerned. My sample (same) from a well growing (fluffy-white growth) did the same on 6 (slant-?) minimal.

Sent Jim sq. ft. [illegible] sample of #863 for him to get something meaningful from samples. [illegible] sent vegetative growth to Ken Munkres ([illegible]) to see if Ken could bail us out. 4/4/79

35, 45 and 65

...lated to the Natural Death Mutant

History

R.K. Littlewood inbred ST 74, 7 generations at Cornell. Acquired in 1970.

Inbred two generations to 74A8 by RKL

A Acquired from FGSC, fall 1972. stored on slant at -20°

Acquired from FGSC, Jan. 1979. stored on slant at -20°

Derived after 7 serial crosses to 74A8. 1973-74 (KDM). maintained in heterokaryon or as ascospores at -20°. Mech Age. Dev. 5(1976)79-98.

maintained on slant at -20° KDM since 1973-74.

Munkres & Minsson

sub-cultured #3, 4, & 6 at 35°. 35 and 45 grow at ca. 50% of wild-type rate. 65 grows normally.

In 65, al-2 component is in excess. nd; al-2 homokaryons could be isolated 6/79. K.D.M.

Appeared to die more rapidly than original F7 homokaryon.

Sub-cultures of 45 grew & conidiated better than original #4

35, 45, & 65 sent 6/25/79

K. Friedman

W.N. Ogata