

Storage of slime strains

C. P. Selitrennikoff
Merck and B., Ins.

Follow this and additional works at: <https://newprairiepress.org/fgr>



This work is licensed under a [Creative Commons Attribution-Share Alike 4.0 License](https://creativecommons.org/licenses/by-sa/4.0/).

Recommended Citation

Selitrennikoff, C. P. (1978) "Storage of slime strains," *Fungal Genetics Reports*: Vol. 25, Article 7.
<https://doi.org/10.4148/1941-4765.1727>

This Technical Note is brought to you for free and open access by New Prairie Press. It has been accepted for inclusion in Fungal Genetics Reports by an authorized administrator of New Prairie Press. For more information, please contact cads@k-state.edu.

Storage of slime strains

Abstract

Storage of slime strain

Selitrennikoff, C. P.

Storage of slime strains.

The slime variant of N. crassa (FGSC #326: fz;sg;os-1, arg-1, cr-1, aur) can be maintained by repeated passage on liquid or agar-solidified medium and can be stored frozen in 10% dimethyl sulfoxide (Creighton and Trevithick (1973) *Neurospora Newsl.* 20: 32) or as a component of a heterokaryon (Nelson et al. (1975) *Neurospora Newsl.* 22: 15-16). However, I have found that petri dish and slant cultures of slime strains can be frozen in situ, stored at -70°C and subsequently thawed and revived. Simply, petri dishes and/or slants containing Nelson's medium B 17.5% Sorbitol (w/v), 1.5 Sucrose (w/v), 1X Vogel's Salts solidified with 1.5% agar (and appropriate supplements) are inoculated and incubated for 5-10 days at 28°C. Petri dishes are wrapped en masse with aluminum foil (slants are sealed with parafilm) and placed in a -70°C freezer. To revive stored strains, dishes and slants are allowed to thaw completely at room temperature and cell masses transferred to fresh dishes (or slants) with the aid of a rubber policeman. Alternatively dishes or slants can be flooded with medium B and the liquid used as an inoculum for fresh agar-solidified medium. Thus far slime and two derivatives strains (slime strains containing cys-11 or in1) have been stored for four months and all cultures subsequently revived. Longer storage periods are currently being tested. - - - Department of Botic Microbiology, Merck and Co., Inc., Rahway, New Jersey 07065.