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Abstract

Method for obtaining mycelial pads

Wrathall, C. R. A method for obtaining

myceliol pads of Neurospora.

Three types of culture conditions ore generally used for the cultivation of Neurosporg = submerged, shake and agar surface. Of the three, the surface growth is the most difficult to recover for analysis. The use of membroner, such g cellophane and Millipore filters con legd to questionable results, while scraping the agar surface is difficult and time-consuming. In the COUISE of a current investigation of the sexual cycle of Neurospora, a technique for obtaining surface-grown mycellum has been used to great advantage.

A soft agar substrate, made by using Difco agar at a concentration of 0.2%. producer a medium with the consistency of thin "Jello". Crowth will take place on the surface of this agar without penetration of the medium. A myceliol pad of sufficient strength to be manipulated is formed in about 60 hours OD Synthetic Crossing Medium in 0 100 mm diameter petri dish.

Harvesting con be accomplished in one of two ways. 1) The myceliol pad is separated from the rides of the petri dish in which it has been grown and water is run under the agar. The dish is then closed and inverted. The agar surface is then up and it can be loosened and washed away, leaving a circular pad which can be picked up on a piece of circular filter paper of the appropriate size. 2) The pad and agar are poured into a cheesecloth filter, washed with running water and squeezed to remove excess water. This wash is repeated two or three timer. The resulting mycelia will be free from agar.

