Fungal Genetics Reports

Volume 20 Article 34

Adjustable platforms for collecting shot asci

K. D. Newcombe
University of British Columbia

A. J.F. Griffiths
University of British Columbia

Recommended Citation

Newcombe, K. D., and A.J. Griffiths (1973) "Adjustable platforms for collecting shot asci," *Fungal Genetics Reports*: Vol. 20, Article 34. https://doi.org/10.4148/1941-4765.1842

Adjustable platforms for collecting shot asci

Abstract

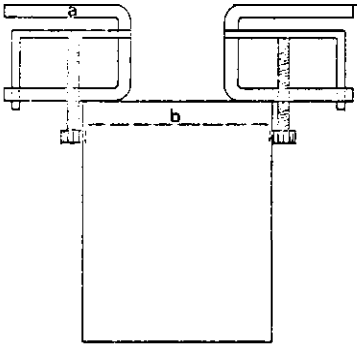
Adjustable platforms for collecting shot asci

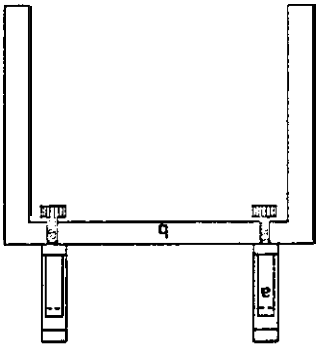
Newcombe, K. D. and A. J. F. Griffiths. Adjustable platforms for collecting shot asci.

This technique basically follows that of Perkins (Neurospora Newsl. 9: 11) with the following modifications: (1) Crosses are made on filter paper strips in tubes containing liquid Westergaard medium. The medium contains 0.2% sucrose, compared to the usual 2%. This drastically reduces conidiation, while maintaining high fertility, and therefore makes the use of fluffy unnecessary. Crosses ore initiated by the simultaneous introduction of each parent as a drop or two of conidial suspension. (This technique was introduced to A. J. F. G. by F. J. de Serres). (2) Low conidiation and the use of filter paper permit the removal from the cross tube of all the perithecio. The paper can be cut up and placed on slides which ore held inverted on adjustable platforms over the agar collection slabs. Two models of platform have been used. (See figures on following page).

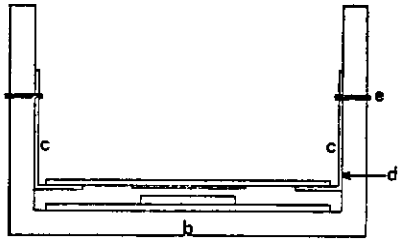
Model I has been used extensively for the routine collection of hundreds of asci. It consists of two tubing clomps (a), mounted on a plastic stand (b) with rapid-hardening epoxy glue. The inverted slide bearing the perithecia is placed across the top, and the slide bearing the agar collection block is placed across the two adjustable arms and racked up into close proximity to the dehiscing perithecia. Two such devices may be mounted back-to-back on each stand.

Model II is a more recent design and permits adjustment in two dimensions by the use of sliding plastic shelves (c). The shelves





MODEL 1



MODEL 2

G.D.W.

are held in contact with the plastic stand by the use of silicone grease at (d). Under warmer conditions some slippage occurs, which can be prevented by a small rubber band (e).

We wish to thank G. D. White for the drawings. Deportment of Botany, University of British Columbia, Vancouver 8. B:C., Canada.