

The comparative study of esterases of ten wild strains of Neurospora has been carried out. The strains used were received from the FGSC and are listed in Table].

Strain designation	FGSC#	Mating type
N . crassg		
Costa Rica	851	Α
North Africa	430	Α
Liberia-4	434	Α
Panama	1130	a
Panama	1131	Α
Species uncertain		
Honduras	1300	a
Java	431	a
Singapore-2	436	a
Fiji N6 - 6	435	Α
Fiji N6-1	432	a

Mycelial extracts were submitted to acrylamide get elec-

acetate. In the study of the zymogram, it was possible to dis-

esterases. Considering all strains together, fourteen bands were observed for there enzymes. The sites of bands have been numbered from 1 to 14. The number 1 corresponds to the band of greatest mobility towards the gnode, and the number 14 to the

Table | Wild-type strains studied

Figure 1. bond closest to the origin. (Figure 1) The strains Honduras a, Java a, Panama a, Panama A, Fiji N6-6 A, and Fiji N6-1 a, present a rapid zone of great esterose activity formed by bands 6. 7 and 8; Panama A also possesses a weak band in position 14. Strains Liberia-4 A and North Africa A have three bands of heavy activity (9, 11 and 13), bond 615 weak and bond 3 is very weak. Strain Costa Rica A contains bands 10, 12 and 14; bond 6 and band 5 are very weak. Strain Singapore-2 a has bands 11 and 13 of heavy activity, whereas bands 6 and 8 gre much weaker, as are also bonds I and 2. In all strains there is a zone of heavy esterasic activity formed by three bonds. This zone seems to be composed of two bands only in strain Singapore-2a, All strains present activity in site 6.

This estergise polymorphism is present in both wild type strains of N. crassa and among Neurospora strains of uncertain species collected in nature. It is strain Singapore-2 a that shows the most differentiation upon comparison with the rest of the strains analyzed. Crosser between the different strains lead us to conclude that four independent systems of isoesterases exist. one is controlled by two alleles, except the system which manifests the bonds of greatest activity, which would be controlled by three.

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