

N. tetrasperma UFC-220 aryl sulfatase separates readily from that of N. crassa during electrophoresis at pH 9, the UFC-220 having a lower mobility. The gene governing this trait has been introgressed into the N. crassa Oak Ridge background (using FGSC# 986 and 988, and strains isogenic with them) by a series of twelve crosses, the first two involving crosses to interspecific hybrids as described by Metzenberg and Ahlgren, Neurospora News1. 15. The crosses also involved selecting all the alcoy markers into the genome, and then out of the genome again in a subsequent cross, to select against tetrasperma ~~xxxxxx~~ genes in LG I, II, III, IV, V, and VI. To "clean up" LG VII, thi-3 and thr-1, lying about 2 centimorgans to the left, and 1 centimorgan to the right, resp., of the desired locus, were bred into, and out of, the genome. The final strain probably contains, at most, a few centimorgans of N. tetrasperma genome.

IF UNPUBLISHED, please indicate strain of origin, linkage, biochemical characteristics, complementation group, etc.)  
distinguishing characteristics: See reverse side; electrophoretically  
demonstrating aryl sulfatase, highly reduced into 1. crassa, and  
not compatible with Oak Ridge strains.  
LINKAGE GROUP(S) & ALLELES: COMMENTS (special growth conditions, observations, heterozygosity compatibility, genetic background, complementation group, etc.) Propagator: Not compatible with  
Oak Ridge Wild type  
(Use additional space on back of page if necessary)

YOUR NAME: Robert L. Metzenberg  
DATE: Apr. 27, 1970  
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checked for viability: 2/27/70  
checked for genotype: 2/27/70  
other storage method: 2/27/70  
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Comments: none used for mating

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