Allelism of ser (JBM5) and ser-3 on linkage group I

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Abstract
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Considerable information is available on the accumulation of polyphosphates and on the enzymes metabolising them (Kulaev (1975) Rev. Physiol. Biochem. Pharmacol., 73: 131). However, very little is known about the effectors that regulate the level of polyphosphates in vivo. We (EC 3.6.1.11, polyphosphate phosphohydrolase).

Mutant ser (JBM5) was isolated by filtration enrichment (V. W. Woodward, J. R. de Zeeuw and A. M. Srbsk (1984) PNAS 81: 192) following ultraviolet irradiation to twenty percent survival of al-2 (15300); cot-1 (C1021)); A. Preliminary crosses indicated that ser (JBM5) was on linkage group I since it showed linkage to mating type. To locate ser (JBM5) with respect to ser-3, a ser-3 isolate of genotype ser (JBM5); org-5, A. was crossed with ser-3 (47909); A. (FOC 7213), on Westergaard- Mitchell medium (1947, Am. J. Bot. 34: 573) containing 2% sucrose and 0.2 g/L L-serine, 0.75 g/L L-arginine and 2% agar. Random spores were isolated onto smaller slants of appropriately supplemented Vogel's medium containing 2% sucrose. The single spore isolates were heat shocked at 60°C for 45 minutes and incubated at 32°C. Of 1026 spore isolates, 528 required serine alone and 498 required both serine and arginine. No serine-independent recombinants were obtained. We conclude that ser (JBM5) is allelic with ser-3.

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