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

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Abstract

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

Mutant ser (JBM5) was isolated by filtration enrichment (V.W. Woodward, J.R. de Zeeuw and A.M. Srb (1954) PNAS 40: 192) following ultraviolet irratiation to twenty percent survival of al-2 (15300); cot-1 (C102(t)) 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 spore isolate of genotype ser (JBM5); arg-5, a was crossed with rer-3 (47903) A (FGSC #1213), on Westergaard-Mitchell medium (1947, Am. J. Bot. 34: 573) containing 2% sucrose and 0.2 g/l L-serine, 0.15 g/l L-arginine and 2% agar. Random spores were isolated onto small slants of appropriately supplemented Vogel's medium containing 2% sucrose. The tingle spore isolates were heat shocked at 60° 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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