

Map location of ace-5.

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Abstract

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Linkage data of acetate mutants, ace-2, ace-3, ace-4, ace-5, and ace-7, have been reported (Kuwana and Okumura 1979 Japan. J. Genetics 54:235). Each of these genes except ace-5 was mapped between the two nearest loci which have been unequivocally ordered on the basis of three-point crosses (Radford 1975 Neurospora News 1. 22:17). The ace-5 gene was mapped between am and ure-1 on the right arm of linkage group V. The gul-1 gene had already been located in this region in the Radford map. This report deals with the exact location of ace-5 in relation to gul-1.

All the strains used in this work carried the cot-1 mutant because the gul-1 allele can be detected only in combination with cot-1. Results, presented in Table 1, show that the gene sequence near ace-5 is: am gul-1 - ace-5 - ure-1 -

TABLE 1

Linkage data of ace-5 in the format of Perkins (1959 Genetics 44:1185)

Zygote genotype and recombination percent	Parental combina- tion	Recombinations			Total and percent germination	Marker isolation numbers
		Singles region 1	Singles region 2	Doubles regions 1 and 2		
<u>+ gul-1 ace-5</u>	4b3	2	4	0	921	KG513
<u>am + +</u> 0.33 0.65	444	1	2	0	681	GA1 KG514
<u>gul-1 ace-5 +</u>	428	2	0	0	575	GA1
<u>+ + ure-1</u> 0.46 0.23	441	2	2	0	911	KG512 3