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Map location of ace-5.

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Map location of ace-5.

Abstract

Map location of ace-5.

Kuwana, H. and M. Miyano.

Linkage data of acetate mutants, dCe-2, ace-3, ace-4, dCe-5, and dCe-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). 22:17). The ace-5 gene was mapped between am and ure-1 on the right arm of linkage group V. The qul-1 gene had already been located in this region in the Radford map. This report deals with the exact location of dce-5 in relation to qu]-1.

All the strains used in this work carried the cot-1 mutant because the au-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: amgu]-1 - ace-5 - ure-1 -

TABLE 1

Linkage data of $\partial Ce-5$ in the format of Perkins (1959 Genetics 44:1185)

Zygote genotype and recombination percent	Parental combina- tion	Recombinations			Total	Marker
		Singles region 1	Singles region 2	Doubles regions 1 and 2	and percent germination	isolation numbers
+ gul-1 ace-5	463	2	4	J	921	2221 E
am + + 0.33 0.65	444	1	2	0	68	UA1 KG519
gul-1 ace-5 +	428	2	0	С	575	CA1
+ + ure-1 0.46 0.23	441	2	2	0	915-	КG512 <u>Э</u>

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