

Origin of strains

am¹ (FGSC# 1184) X pe, fl (FGSC# 569)

↓
am¹; pe, fl (25)

↓ Ultraviolet light treatment

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am¹; pe, en-am, fl (C24) X inos (FGSC# 925)

↓
am¹; pe, en-am (8-28)

↓ Revertant colony (*spontaneous*)

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am^{1R}; pe, en-am (29-32) X am¹ (FGSC # 1184)

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am^{1R}; pe, en-am (76-3) X am¹ (FGSC# 1184)

↓
am¹; pe, en-am (95-11) X wild type (FGSC# 262)

↓
am¹; en-am (109-6) A



Growth Characteristics

Strains carrying the en-am locus grow normally on minimal medium; but strains carrying this locus in combination with am-1 alleles fail to grow on minimal and require large amounts of L-alanine (25mM) for good growth—they grow very well on casein hydrolysate (0.5%-Difco).

The am; en-am strains are rather unstable on suboptimal medium and revertants with wild type growth are frequently observed. Backmutation at the am locus is a likely explanation of this. The rather high incidence of revertant colonies is seen because of the strong selection for growth on suboptimal medium. (M. Shields)

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allele M not used for this (A)