

MUT-4899 10-4 mt+ (pst-u-1-10-4)

Cat. No. ALS-04034

Lot. No. (See product label)

Subcategory

Mutants

Description

Following 5-fluorodeoxyuridine treatment and ethyl-methanesulfonate mutagenesis of wild-type 2137 mt+ cells, colonies were screened for light-sensitive, acetate-requiring phenotypes. Mutant 10-4 displayed uniparental inheritance, and lacks photosystem II activity. Recombination tests showed that 10-4 is at the same locus (pst-u-1) as 8-36C, 11-1A, 11-3D, 11-4D, and 12-3C. Because 8-36C, 11-1A, and 11-4D result from deletions in psbA, 10-4 may also result from a psbA mutation. This strain was recovered from a cross between the original 10-4 mt+ and pf2 mt-, and has been maintained with acetate medium in darkness to prevent selection for revertants and non-light-sensitive suppressors.

Species

Chlamydomonas

Chromosome

Chloroplast

Phenotype

Requires acetate; sensitive to light

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