

MUT-4903 10-3C mt+ (pso-u-1-10-3C) [formerly MUT-2046]

Cat. No. ALS-04038

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 10-3C displayed uniparental inheritance, and PSI-deficient fluorescence-induction kinetics. Recombination tests showed that 10-3C is at the same locus (pso-u-1) as 12-7. This PSI-deficient mutant could grow photoautotrophically, but the strain they used (MUT-2046) likely reverted and has since been lost from the culture collection. This strain was recovered from a cross between the original 10-3C 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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