MUT-4895 10-2E mt- (psp-u-1-10-2E) [formerly MUT-2045]

Cat. No. *ALS-04030*

Lot. No. (See product label)

Subategory
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 10-2E displayed uniparental inheritance, and has normal fluorescence-induction kinetics. Recombination tests showed that 10-2E is at the same locus (psp-u-1) as 8-31, 8-35, 10-7C, and 12-10B indicating that it may lack photosynthetic phosphorylation due to an atp-gene mutation. A different photosynthetic phosphorylation locus (psp-u-2) was defined by mutant 12-5A (MUT-2260). This strain was recovered from a cross between the original 10-2E 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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