

MUT-1375 ac-u-lambda (psbA deletion) mt+

Cat. No. ALS-01773

Lot. No. (See product label)

Subcategory

Mutants

Description

This strain is a mt+ derivative, obtained by successive crosses to MUT-125 wild type of a mutant isolated in a diploid strain. This strain is not arginine-requiring. The mutant shows symmetrical 9 kb deletions in both copies of the psbA gene. This mutant was isolated in an arg2/arg7 diploid strain. Cells were pregrown in 0.5 mM 5-fluorodeoxyuridine in liquid cultures, concentrated, and irradiated with 2 minutes X-ray at 6 krad/min. The irradiated cells were plated on 2 mM arsenate and arsenate-tolerant (non-photosynthesizing) clones were selected.

Species

Chlamydomonas

Locus

psbA

Chromosome

Chloroplast

Phenotype

Requires acetate

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