

MUT-4905 15-1L mt+

Cat. No. ALS-04040

Lot. No. (See product label)

Subcategory

Mutants

Description

Using established methods of 5-fluorodeoxyuridine treatment and ethyl-methanesulfonate mutagenesis of wild-type 2137 mt+ cells, colonies were screened for light-sensitive, acetate-requiring phenotypes. Mutant 15-1L displayed uniparental inheritance, and has an 80% decrease in Rubisco carboxylase activity and a 95% decrease in whole-chain electron transport. These pleiotropic alterations may arise from a defect in chloroplast protein synthesis. This strain 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

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY