

MUT-3794 *sac1::ARG7 nit1 mt+* [ars5-4]

Cat. No. ALS-03037

Lot. No. (See product label)

Subcategory

Mutants

Description

Derived from transformation of MUT-425 with plasmid pJD76, subsequently crossed with MUT-2677 (*nit1-305*). This strain does not express arylsulfatase activity when grown under sulfur-deficient conditions. As a group, the *sac1* mutants fail to accumulate arylsulfatase or the proteins of the high-affinity sulfate transport system when transferred to sulfur-deficient medium. They are also unable to decrease photosynthesis under these conditions, with the result that they die when cultured in the light under sulfur-limiting conditions.

Species

Chlamydomonas

Locus

SAC1

Chromosome

3

Phenotype

Altered sulfur metabolism

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