

MUT-4044 CR04 (amt4) mt+

Cat. No. ALS-03273

Lot. No. (See product label)

Subcategory

Mutants

Description

This is a spontaneous methylammonium-resistant mutant isolated in the 4A+ background (MUT-4051). CR04 contains a single base pair substitution, which changes a GGC codon (glycine) to GAC (aspartate) in exon 5 of the AMT4 gene. The change occurs at amino acid residue 236 within putative transmembrane segment 5. Based on the level of resistance to methylammonium and methylammonium uptake characteristics, this non-conservative change in a critical region appears to result in an amt4 null allele.

Species

Chlamydomonas

Locus

AMT4

Chromosome

13

Phenotype

Inhibitor resistant (methylammonium)

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY