

## MutS (*E. coli*)

**Catalogue number:** MB21101, 50 µg  
MB21102, 250 µg

### Description

MutS is a mismatch repair enzyme from *Escherichia coli*, expressed in the recombinant form in the same host, which selectively binds DNA fragments containing mispaired or unpaired bases. MutS binds mismatches that most resemble base pairs (i.e., G:T mismatches in G:C rich regions), allowing MutS to be used for mutation/SNP detection, isolation applications and mismatch repair structure/function studies.

### Storage temperature

MutS should be stored at -20 °C in a non-frost free freezer.

### Storage buffer

25 mM NaHepes, pH 7.5, 500 mM NaCl, 5 mM DTT, 0.1 mM EDTA and 50% (v/v) glycerol.

**Enzyme concentration:** 0.5 µg/µL

### Quality control assays

#### Purity

Recombinant MutS is >95% pure as judged by SDS polyacrylamide gel electrophoresis followed by Coomassie blue staining.

#### Nuclease assays

0.2-0.3 µg of pNZY28 plasmid DNA are incubated with 5 µg of MutS for 14-16 hours at 37 °C. Following incubation, the DNA is visualized on a GreenSafe-stained agarose gel. There must be no visible nicking or cutting of the DNA.

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### Certificate of Analysis

Test	Result
Enzyme purity	Pass
Nucleases assays	Pass

Approved by:



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