MB211_UG_EN_V2403

MutS (*E. coli*)

Catalogue number	Presentation
MB21101	50 µg
MB21102	250 µg

Description

MutS is a mismatch repair protein 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.

Shipping & Storage Conditions

This product is shipped in dry ice. Upon receipt, store at -80 °C to -15 °C in a constant temperature freezer. Adhering to these meticulous storage procedures ensures that MutS will remain stable until the expiry date and deliver reliable and consistent performance in all applications.

Components

	MB21101 (50 µg)		**MB21102** (250 µg)	
COMPONENT	**TUBES**	**VOLUME**	**TUBES**	**VOLUME**
MutS	1	100 µL	5	100 µL

Specifications

Protein concentration: 0.5 µg/µL.

Quality control

Purity

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

Nucleases assay

To test for DNase contamination, 0.2-0.3 µg of pNZY28 DNA are incubated with 5 µg of MutS for 14-16 h at 37 °C. To test for RNase contamination, 1 µg of RNA is incubated with 5 µg of MutS for 1 h at 37 °C. Following incubation, the nucleic acids are visualized on a GreenSafe-stained agarose gel. There must be no visible nicking or cutting of the nucleic acids.

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