

10x NZYBuffer U

Catalogue number	Presentation
MB11001	500 µL
MB11002	1000 µL

Description

The 10x NZYBuffer U is a universal buffer compatible with all of NZYtech's Restriction Enzymes, making it ideal for double or multiple digestions. It eliminates the need for sequential digestions, thus saving time in the laboratory. The buffer already contains Mg^{2+} at the optimal concentration for most restriction enzymes. Additionally, 10x NZYBuffer U is a ready-to-load buffer, enabling the direct loading of restriction digests onto agarose gels.

Shipping & Storage Conditions

This product can be shipped at a range of temperatures from dry ice to blue ice. After delivery, product should be stored at -85°C to -15°C. The 10x NZYBuffer U will remain stable until the expiry date if stored as specified.

Components

COMPONENT	MB11001		MB11002	
	TUBES	VOLUME	TUBES	VOLUME
10x NZYBuffer U	1	500 µL	1	1000 µL

Specifications

Concentration: 10x concentrate.

Tracking dye: Orange G.

Reaction Volume: 2 µL per 20 µL reaction.

Quality control assays

Nuclease assays

To test for DNase contamination, 1 µg of pNZY28-derived plasmid DNA are incubated with 10x NZYBuffer U for 14-16 h at 37 °C. To test for RNase contamination, 1 µg of RNA is incubated with 10x NZYBuffer U 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.

Functional assay

10x NZYBuffer U was tested for performance in a digestion of 1 µg of a recombinant pNZY28 derivative using 10 U of a restriction enzyme. The resulting digestion was visualized in an agarose gel.

For life science research only. Not for use in diagnostic procedures.