

Bst Nickase

CATALOG NO.: M1235-1000

AMOUNT: 1000 U (100 μl)

CONCENTRATION: 10 U/µl

FORM: Liquid

SOURCE: Recombinant E.coli

KIT COMPONENTS:

Components	Volume	Part No.
Bst Nickase (10 U/μI)	100 µl	M1235-1000-1
10X Bst Nickase Reaction Buffer	1.0 ml	M1235-1000-2

DESCRIPTION: Bst Nickase is a nicking endonuclease from *Bacillus*

stearothermophilus that cleaves one DNA strand of a doublestranded DNA substrate. This site-specific endonuclease cleaves a single strand of DNA four base pairs away and 3' of its

recognition sequence.

APPLICATION: Single strand DNA nicking

RECOGNITION SEQUENCE:

5'...GAGTCNNNNN...3' 3'...CTCAGNNNNN...3'

ENZYME STORAGE BUFFER: 10 mM Tris-HCl (pH 7.5), 0.1 mM EDTA, 1 mM DTT, 50 mM

KCl, 200 μg/ml BSA and 50% (v/v) Glycerol.

ENZYME UNIT DEFINITION: One unit is defined as the amount of Bst Nickase that digests 1

μg of T7 DNA into 5 distinct bands (13, 9, 7, 6, and 4 kb) in 1

hour at 55°C in a reaction volume of 50 µl.

REACTION CONDITIONS: Use 1X Bst Nickase Reaction Buffer and incubate at 55°C

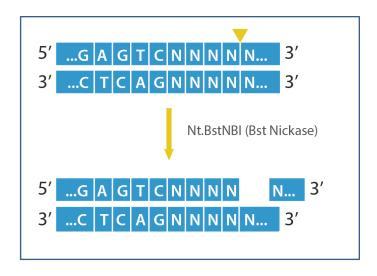
HEAT INACTIVATION: Heat at 80°C for 20 minutes

STORAGE CONDITIONS: Store at -20°C. Avoid repeated freeze-thaw cycles of all

components to retain maximum performance. All components

are stable for one year from the date of shipping when stored

and handled properly.



RELATED PRODUCTS:

- Exonuclease I, E.coli (Cat# M1222-100)
- Exonuclease III, E.coli (Cat# M1223-100)
- T7 Endonuclease I (Cat# M1221-100)
- DNase I (Cat# M1230-2000)
- CRISPR sqRNA Synthesis Kit (Cat# K1251)
- Classic CRISPR sgRNA Synthesis Kit (Cat# K1252)
- Express CRISPR sqRNA Synthesis Kit (Cat# K1253)

FOR RESEARCH USE ONLY! Not to be used on humans.