

RNase III, E.coli

CATALOG NO.: M1226-100

AMOUNT: 100 U (100 μl)

CONCENTRATION: 1 U/µl

PRODUCT SOURCE: Recombinant *E. coli*

FORM: Liquid

KIT COMPONENTS:

Components	Volume	Part No.
RNase III, E. coli (1 U/µI)	100 µl (100 U)	M1226-100-1
10X RNase III, E. coli Reaction Buffer	300 µl	M1226-100-2

DESCRIPTION: RNase III, *E.coli* is an endoribonuclease that specifically digests

dsRNA into dsRNA fragments of 12-15 base pairs that have two or three nucleotide 3'-overhangs with 5' phosphate and 3'

hydroxyl termini.

APPLICATIONS: 1. dsRNA digestion to short dsRNA fragments

2. Useful for RNA processing, maturation and structure studies

3. Directed cleavage of RNA

4. siRNA preparation for RNA interference in mammalian cells Note: This product is not suitable for NGS or second strand

cDNA synthesis applications.

UNIT DEFINITION: One unit is defined as the amount of RNase III, E. coli that is

required to hydrolyze 1 nmol of poly(A):poly(U) dsRNA in 30 minutes at 37°C in 1X RNase III, *E.coli* Reaction Buffer.

STORAGE BUFFER: 50 mM Tris-HCl (pH 7.5), 0.5M NaCl, 1 mM DTT, 0.1 mM

EDTA, 0.1% Triton® X-100 and 50% (v/v) Glycerol

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

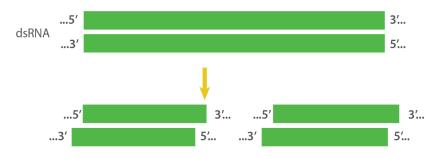
components to retain maximum performance. All components are stable for one year from the date of shipping when stored

and handled properly.

10X RNase III, E. Coli REACTION BUFFER COMPONENTS: 100 mM Tris-HCl, 600 mM NaCl,

100 mM MgCl₂, 10 mM DTT, pH 8.3

REACTION CONDITIONS: Use 1X RNase III. E. coli Reaction Buffer and incubate at 37°C



RELATED PRODUCTS:

- RNase A (Cat# M1227-25)
- RNase R (Cat# M1228-500)
- RNaseOFF ribonuclease Inhibitor (Cat# M1238-4000)
- DNase, E. coli DNA Ligase (Cat# M1217-100)
- Link-FAST™ 5 Minutes DNA Ligation Kit (Cat# K902-50)
- New T4 DNA Ligase (Cat# M1247-200)
- T4 DNA Ligase (5 u/µl) (Cat# 9101-250)
- T4 RNA Ligase 1 (ssRNA Ligase) (Cat# M1218-100)
- T4 RNA Ligase 2 (dsRNA Ligase) (Cat# M1219-100)
- T4 RNA Ligase 2 (Truncated) (Cat# M1220-100)

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

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