Ver. P261101

DNase I (RNase-free)

Cat. No.: ORT411

Description: This product is a recombinant endonuclease expressed and purified from DNase I gene derived from Bovine pancreas. It hydrolyzes phosphodiester bonds producing mono- and oligodeoxyribonucleotides with 5′-phosphate and 3′-OH groups.

Contents

DNase I (RNase-free)	500U (2U/µL)
10X DNase I Reaction Buffer with $MgCl_2$	600µL
Stop Solution	500µL

Features

- Source: Bovine pancreas
- Concentration: 2U/µL
- Activity (U/mg protein): @ 25℃ > 2500U/mg protein,
- RNase: None

Applications:

- Degradation of DNA template in transcription reactions
- Removal of genomic DNA from RNA preparations
- DNase I footprinting

Unit definition: One unit of the enzyme completely degrades 1µg of plasmid DNA in 10 minutes at 37 °C.

Storage: Store at –20°C. Do not store in a frost-free freezer. This product is guaranteed for 1 year under proper storage.

Removal of genomic DNA from RNA Preparation

1. Add the following to a RNase-free tube

RNA	1µg
10X DNase I Reaction Buffer with $MgCl_2$	1µL
DNase I (RNase-free)	0.5µL
DEPC-treated Water	To 10µL

2. Incubate at 37℃ for 30 minutes
3. Add 1µL Stop Solution and incubate at 65℃ for 10 minutes
4. Use the RNA for further experiments.