

Ver. 24122

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)	1500U (2U/ μ L)
10X DNase I Reaction Buffer with $MgCl_2$	$2 \times 900\mu$ L
Stop Solution	1mL

Features

- Source: Bovine pancreas
- Concentration: 2U/ μ L
- Activity (U/mg protein): @ 25°C > 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 1 μ g 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	1 μ g
10X DNase I Reaction Buffer with $MgCl_2$	1 μ L
DNase I (RNase-free)	0.5 μ L
DEPC-treated Water	To 10 μ L

2. Incubate at 37°C for 30 minutes
3. Add 1 μ L Stop Solution and incubate at 65°C for 10 minutes
4. Use the RNA for further experiments.