DNaseI (CELL culture grade)

Catalog number : **BM0080-2000**
Size : **2,000u (kunitz,25°C), 1ml**
Concentration: **2u/ul**
RNase activity: **None-detected**
Store at -20°C

Description:

DNase I is purified from bovine pancreas that degrades single-stranded or double-stranded DNA to produce 3-hydroxyl oligonucleotides. This enzyme is used in molecular biology techniques like digestion of DNA, in the RNA isolation, nick translation and DNase I footprinting.

Storage buffer: 10mM HEPES (pH7.5)
10mM $CaCl_2$
10mm $MgCl_2$
50% glycerol

10X Reaction Buffer: 400mM Tris-HCl (pH8.0)
100mM $MgSO_4$
10mM $CaCl_2$

Heat Inactivation (Not for RT): Add EDTA solution (pH8.0) to final 2mM, heat at 75°C for 10 min.

DNase I Treatment of RNA for RT-PCR

1. Add the following components to a sterile, RNase-free tube. **Keep the tube on ice during pipetting.**

RNA in water	1-8µl
10X RNase-free DNase I buffer	1µl (10X composition: 400mM Tris-HCl (pH 8.0), 100mM $MgSO_4$ and 10mM $CaCl_2$.)
RNase-free DNase I	1u/µg RNA
Add RNase-free water to 10µl	

2. Incubate at 37°C for 30 min.
3. Incubate at 70°C for 5 min to inactivate the DNase.
4. Add the treated RNA to the RT-PCR reaction.

BIONOVAS Biotechnology Co., Ltd.
647-808-8236
No. 194 kingsdale Ave, Toronto. Ontario. M2N3W9