KIAGENE FANAVAR

DNase I, RNase Free Solution
1U/µl
Cat. No:
FPLF008.1000
FPLF008.0500
Contents:

Components	500 rxn	1000 rxn
DNase I Solution	500 µl	1000 µl
10X DNase Incubation Buffer with MgCl2	500 µl	1000 µl

Kit storage:

⚠ This kit should be stored at -20 °C.
If properly stored, all kit components are stable until the expiration date printed on the label.

Description

DNase I, RNase-free is an endonuclease that digests single- and double-stranded DNA. It hydrolyzes phosphodiester bonds producing mono- and oligodeoxyribonucleotides with 5'-phosphate and 3'-OH groups.

Application

●Preparation of DNA-free RNA.
●Removal of template DNA following in vitro transcription.
●Preparation of DNA-free RNA prior to RT-PCR and RT-qPCR.
●DNA labeling by nick-translation in conjunction with DNA Polymerase I.
●Studies of DNA-protein interactions by DNase I, RNase-free footprinting.

Handling Requirements and Safety Information

⚠ *use RNase-free and DNase-free materials*

⚠ *Do not use any modified Protocols.*

⚠ *Do not pool reagents from different lot numbers.*

⚠ *Immediately after usage, close all bottles in order to avoid leakage, varying buffer concentrations or buffer conditions.*

⚠ *After first opening store all bottles in an upright position.*

⚠ Wear protective disposable gloves, laboratory coats and eye protection, when handling samples and kit reagents.

⚠ Do not contaminate the reagents with bacteria, virus, or nucleases. Use disposable pipets and nuclease free pipet tips only, to remove aliquots from reagent bottles.

Protocol

1.Add to an RNase-free tube:

RNA	1 µg
10X reaction buffer with MgCl2	1 µl
DNase I Solution	1 µl (1 U)
DEPC-treated Water	to 10 µl

2. Incubate at 37 °C for 30 min.
3. Add 1 µl 50 mM EDTA and incubate at 65 °C for 10 min. RNA hydrolyzes during heating with divalent cations in the absence of a chelating agent. Alternatively, use phenol/chloroform extraction.