DNAbiotech
Biotechnology is our expertise

RNase A

Catalog no.: DB9700

10 mg/ml

1 and 5 ml

Intended for Research Use Only

Modares Technology and Sciences Park, Room 510. No. 15, Gordafarid-heyat junction, North Kargar, Enghelan Square, Tehran, I.R. Iran

Www.dnabiotch.ir

Diba NoAvaran Azma Company

Customer and technical support

If you have any question, do not hesitate to ask! DNAbiotech would be highly appreciated for any comment(s).

Contact us at
www.dnabiotech.ir
Tell: +989128382915
E-mail: dnabiotechco@gmail.com

Quality Control
In accordance with DNAbiotech Co. Management System, each part of the product tested against predetermined specifications to ensure consistent product quality.

General description

Ribonuclease A (RNase A), 10 mg/mL Solution is prepared from pancreatic RNase A of bovine origin. RNase A is an endoribonuclease that efficiently hydrolyzes RNA contaminants in DNA preparations by cleaving the phosphodiester bond between the 3'-phosphate group of a pyrimidine nucleotide (C and U) and the 5'-ribose of its adjacent nucleotide. The intermediate 2',3'-cyclic phosphodiester that is generated is then further hydrolyzed to a 3'- monophosphate group. Bovine pancreatic RNase A is a very stable protein of 124 amino acids, with its highest measured activity toward single-stranded RNA and a two-fold faster cleavage rate at cytidine residues compared to uridyl residues.

- ✓ DNase and endonuclease tested
- ✓ Removes RNA contamination in DNA preparations

Product Information

Cat #: DB9700
Volume: 1 ml and 5 ml.
Form: Liquid
Featured industry: For Research Use Only
Shipped in: Wet ice for close distance, dry ice for long distance (more than 1 day)

Storage condition: at -20°C for 24 months

Applicatins:

Note: Ribonuclease A (RNase A), 10 mg/mL Solution is ready-for-use and does not require boiling. The recommended working concentration of enzyme is 1 – 100 µg/mL.

Removal of DNA from plasmid DNA

- ✓ Ribonuclease A (RNase A), 10 mg/mL Solution may be added to the cell resuspension buffer after cell harvesting at a concentration up to 100 µg/mL.
- ✓ Ribonuclease A (RNase A), 10 mg/mL Solution may be added to the resuspended DNA (typically in TE pH 8.0) at 20 µg/mL. Incubate at 37°C for 15 – 30 minutes.
- ✓ If further purification is required to remove the RNase A, perform a phenol/chloroform extraction.

References:

1. Markham, R.; Smith, J. D. Biochem. J. 1952, 52, 552-557.
2. Volkin, E.; Cohn, W. E. J. Biol. Chem. 1953, 205, 767-782.
3. Beers, R. F. J. Biol. Chem. 1960, 235, 2393-2398.
4. Richards, F. M.; Wyckoff, H. W. Enzymes 1971, IV, 647-806

Other products & services:

- ✓ Cloning and expression of different recombinant peptides
- ✓ Gene, Primer and peptide synthesizing
- ✓ Bioinformatics services
- ✓ Production of column based DNA extraction kits.
- ✓ Production of secondary antibodies (goat anti mouse, anti rabbit and anti human antibodies, HRP conjugated).
- ✓ PFU master mix
- ✓ Molecular grade buffers (TAE, TBE, RIPA and….)
- ✓ And ….

For more information visit us at “www.dnabiotech.ir”

More Products Launch Coming Soon!