



Part No.: H-020-000853-00

RNase A

Instructions for Use

Version: 1.0

Leading Life Science Innovation

Address: Building 24, Stage 3.1, BioLake Accelerator, No.388, 2nd Gaoxin Road,
East Lake High-Tech Development Zone, 430075, Wuhan, P.R. China
E-mail: MGI-service@mgi-tech.com
Website: en.mgi-tech.com

Research Use
Only

Wuhan MGI Tech Co., Ltd.

About the instructions for use

This instructions for use is applicable to RNase A. The version of the instructions for use is 1.0 and the product version is V1.0.

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Revision history

Version	Date	Description
1.0	October 27, 2023	Initial release

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Chapter 1 Introduction

1.1 Product name

RNase A

1.2 Specification

Catalog number	Specification
940-001646-00	1 mL/tube

1.3 Product description

Ribonuclease acts specifically on pyrimidine bases and cleaves the phosphodiester bond formed by the 5'-ribose on a nucleotide and the phosphate group on the 3'-ribose of an adjacent pyrimidine nucleotide, thereby hydrolyzing the 2', 3'-cyclic phosphates to the corresponding 3'-nucleoside phosphates and their oligonucleotides. Ribonuclease is a globular protein consisting of a single polypeptide chain with a molecular weight of about 14,000, and is extremely stable to dilute acids, heat, and proteolytic enzymes, but is unstable in alkali. Ribonuclease is mainly used as a biochemical reagent and a tool enzyme for nucleic acid research. This product is a high-purity ribonuclease A that is isolated and extracted from bovine pancreas and evolved and purified using affinity chromatography. This product has effectively removed contamination from other nucleases.

Chapter 2 Product information

Table 1 Basic information on RNase A

CAS number	9001-99-4
Purification	≥ 60% RNase A basis (SDS-PAGE)
Activation	> 50 Kunitz units/mg protein
Optimal temperature	60 °C (The effective temperature ranges from 15 °C to 70 °C)

Buffer	50% glycerin, 20 mm Tris (pH7.4), 10 mm CaCl ₂ , 0.1% preservative
Storage condition	2 °C to 8 °C
Validity period	600 days

Chapter 3 Warnings and precautions

- This product is for research use only. Please read this instructions for use of the product carefully before use.
- When the SDS/CTAB concentration exceeds 2% in the working environment, it will significantly inhibit RNase activity. Lysis buffer containing guanidine salts also significantly inhibits the RNase A effect. When adding RNase to the digestion solution or lysis solution, dilute appropriately to reduce the concentration of SDS, CTAB, and guanidinium salts to enhance the RNase digestion effect.
- To ensure the accuracy, use a pipette in an appropriate volume range to add reagents.
- Direct contact with skin and eyes should be avoided for all samples and reagents. Do not swallow. If accidental ingestion occurs, please get medical attention immediately. If skin exposure occurs, rinse with large amounts of water and get medical attention if irritation persists.
- Due to the diversity of applications for this product, please follow the instructions provided with the corresponding kit.

Appendix 1 Manufacturer information

Manufacturer	Wuhan MGI Tech Co., Ltd.
Address	Building 24, Stage 3.1, BioLake Accelerator, No.388, 2nd Gaoxin Road, East Lake High-Tech Development Zone, 430075, Wuhan, P.R. China
Technical support	Wuhan MGI Tech Co., Ltd.
E-mail	MGI-service@mgi-tech.com
Website	en.mgi-tech.com