

RNase A

Molecular Biology Grade



Store at
-20°C

Cat. No. YRN100
RNase A (≥ 60 U/mg): 100 mg
Cat. No. YRN250
RNase A (≥ 60 U/mg): 250 mg
Cat. No. YRN500
RNase A (≥ 60 U/mg): 500 mg
Cat. No. YRN1G
RNase A (≥ 60 U/mg): 1 g

Format: Lyophilized powder (salt-free)
Source: Bovine pancreas from various locations, USDA approved
Purity: ≥95% by SDS-PAGE (chromatographically purified)
Activity: ≥ 1800 units/mg protein according to Kunitz (25°C)

Unit definition

One unit is defined as the amount of enzyme that will catalyze the hydrolysis of RNA to yield a first-order velocity constant equal to 1.0 at 25°C, pH 5.0.

Quality Control

DNases: (not detected).
RNases: (not detected).
Exonucleases: (not detected).

Storage Conditions

RNase A shall be stored at -20°C in a constant freezer and protected from moisture.

Description

RNase A is from Bovine pancreas (BSE-free sources) and it is a chromatographically purified, pyrimidine-specific endoribonuclease that acts on single-stranded RNA.

Applications

Removal of RNA from plasmid DNA preparation.
Removal of RNA from recombinant protein preparation.
Removal unspecifically bound RNA.
Mapping single-base mutations in DNA/RNA.
RNase protection assays.

Note

RNase A is stable to both heat and detergents. Also, it adsorbs strongly to glass. To prevent RNase A residue while extracting intact RNA, extra precautions is required.

Preparation Instructions:

Boiling stock solutions of this RNase A product to inactivate residual DNase is not necessary and may cause precipitation of RNase and possible loss of enzymatic activity.

Typical Protocol:

1. Warm to room temperature before opening.
2. For removal of RNA from preparations of plasmid DNA, RNase A is used at a final concentration of 0.2 mg/ml.

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