

## **RNase A (Affinity Purified**)

Store at -20°C.

Do not store in a frost-free freezer.

AM2270 AM2271 Catalog #: Amount: 200 µg 1 ma

**Product Description:** Affinity-purified RNase A intended for applications where the absence of DNase and other nonspecific nuclease

activity is critical.

Source: Manufactured from Bovine pancreas by a USDA-approved source.

Concentration: 1 ma/ml

**Unit Definition:** One unit is the amount of RNase A required to give an increase of 0.0146 A<sub>286</sub> units per min in a 1 mL volume at

room temperature and is equivalent to 0.1177 Kunitz Units. Assay Conditions: 100 mM Tris-acetate (pH 6.5), 1 mM

EDTA, and 1 mM cyclic 2', 3'-CMP.

**Materials Not Provided:** Because of the variety of product applications, no reaction buffer is supplied.

**Storage Conditions:** Store at -20°C. Do not store in a frost-free freezer.

(Not included) 10 mM HEPES (pH 7.2), 20 mM NaCl, 0.1% Triton X-100, and 50% glycerol (v/v). Storage Buffer:

## **USER INFORMATION**

**General Information:** RNase A is a ribonuclease that specifically cleaves 3' of U and C residues [1]. Ambion RNase A (Affinity Purified) is

intended for critical applications when the absence of DNase and other nonspecific nuclease activities in the RNase

preparation is essential.

Among other applications, RNase A (Affinity Purified) can be used to remove RNA from DNA preparations. It is Applications:

active under a wide range of reaction conditions.

For minipreps of plasmid DNA, add RNase A to 20 µg/mL during restriction enzyme digestion reactions. For largescale plasmid DNA preparations, add RNase A to a final concentration of 20 µg/mL to a crude lysate that has been resuspended in TE. Incubate 20 min at 37°C, then extract with buffered phenol and chloroform/isoamyl alcohol (24:1)

and precipitate using 2 M ammonium acetate and 2 volumes 100% ethanol before further purification [2].

Crook EM, Mathias AP, and Rabin BR. (1960) Spectrophotometric assay of bovine pancreatic ribonuclease by References: the use of cytidine 2':3'-phosphate. Biochem J. 74:234-238.

> Ausubel FM, Brent R, Kingston RE, Moore DD, Seidman JG, Smith JA, Struhl K, editors. (2006) E. coli, Plasmids, and Bacteriophages (Chapter 1). In Current Protocols in Molecular Biology. John Wiley & Sons, Inc.

p 1.6.2 and 1.7.9.

## **QUALITY CONTROL**

RNase A (Affinity Purified) is rigorously tested for contaminating nonspecific endonuclease, exonuclease, and protease activity.

## OTHER INFORMATION

Material Safety Data Sheets (MSDSs) can be printed or downloaded from product-specific links on our website at the following **Material Safety Data Sheets:** 

address: www.ambion.com/techlib/msds. Alternatively, e-mail your request to MSDS\_Inquiry\_CCRM@appliedbiosystems.com. Specify the catalog or part number(s) of the product(s), and we will e-mail the associated MSDSs unless you specify a preference for fax delivery. For customers without access to the internet or fax, our technical service department can fulfill MSDS requests placed by

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