



Ribonuclease A

Enzymatic manipulation of DNA and RNA – Minipreps of plasmid DNA – In-situ hybridisation of cellular RNA – Removal of RNA from plasmid preparations

Product Description

Name :	Ribonuclease A, solution 20mg/ml	
Catalog Number :	from bovine pancreas, B4S470, 5ml B4S471, 15ml	
Properties :	Molecular Weight : 13,700 Da	Optimum pH : 5.0 – 6.0
CAS-Number:	[9001-99-4]	

Storage: 2-8°C (upto 1 year)

Introduction

Ribonuclease A (RNAse A) is an endoribonuclease, that specifically cleaves single-stranded RNA 3' to pyrimidine residues (cytosine, uracil). It cleaves the phosphodiester bond between the 5'-ribose of a nucleotide and the phosphate group attached to the 3'-ribose of an adjacent pyrimidine nucleotide. The resulting 2', 3'-cyclic phosphate is hydrolyzed to the corresponding 3'-nucleoside phosphate.

Unit Definition

One unit of the enzyme causes an increase in absorbance of 1.0 at 260 nm when yeast RNA is hydrolyzed at 37 o C and pH 5.0. Fifty units are approximately equivalent to 1 Kunitz unit. It is completely free of DNases and proteases. The specific activity is 90 U/mg.

Applications

- It is an endoribonuclease that specifically cleaves single- stranded RNA.
- It cleaves 3' end of unpaired C and U residues. RNase A specifically cleaves single-stranded RNA at 3' phosphate

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- linkages of pyrimidine residues leaving pyrimidine 3' phosphates and oligonucleotides with terminal pyrimidine 3' phosphates.
- It is used in plasmid and genomic DNA protocols to obtain RNA-free DNA.
- It is also used for cleaving of unhybridized regions of RNA from DNA-RNA or RNA Hybrids.

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Storage Buffer

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Prepared 20 mg/ml RNase A solution in 10 mM Tris-Cl and 50% glycerol.

FT-B4S471



Directions for use

Working concentrations

The recommended working concentration is from 0.1 to $10\mu g/mL$. $10\mu g/mL$ (Removal of RNA from plasmid preparations: 1 hr, RT) 100ng/mL (Preparation of "blunt ends" of double-stranded cDNA).

Related products

• Proteinase K, 858706

Ordering information

Catalog size quantities and prices may be found at http://www.interchim.com.

For any information, please ask : Uptima / Interchim; Hotline : +33(0)4 70 03 73 06 Order on-line or Contact your local distributor

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