

Product Specification Sheet

Product: Ribonuclease A

Source: *Bovine Pancreas*

Code: MB-113-0001

Lot # 13309

Size: 1.0 mg

Physical State: Liquid (sterile filtered)

Enzyme Concentration: 40750 units/ml

Protein Concentration: 6.4 mg protein/ml

Specific Activity: 6367 units/mg Protein

% Deoxyribonuclease: none detected

% Protease: none detected

Buffer Composition: Supplied as a solution of approximately 5 mg/ml in 50% (v/v) glycerol.

Application(s): Molecular Biology Grade Ribonuclease A is specially prepared for use in purifying DNA plasmids and is DNase and protease free. Useful for any application to remove RNA from DNA in molecular biology and nucleic acid research.

Storage Conditions: Store vial at 2° to 8° C or -20° C or colder. Expiration date is six (6) months from date of opening vial.

Unit Definition: One unit will cause an increase in the absorbance of 1.0 OD unit at 260 nm at 37° and pH 5.0 when yeast ribosomal RNA is hydrolyzed to acid soluble oligonucleotides. One unit equals 0.02 kunitz units.

Other Enzymatic Activity: DNase – No change in the ethidium bromide stained agarose gel electrophoresis band pattern of pUC19 DNA following the incubation of 20 units of Ribonuclease A for 2 hours at 37° C with 1 µg of pUC19 DNA in 10 mM Tris Cl, 10 mM Sodium Chloride and 1 mM EDTA at pH 8.0 in a 50 µl volume.
Proteases – No development of digestion zones when 50 µg units of Ribonuclease A are incubated in a casein agarose plate for 48 hours at 37° C.

Note: This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information.