

Certificate of Analysis

Product: Ribonuclease A

Source: Bovine Pancreas

Code: MB-113-0001

Lot # 19353

Size: 1.0 mg

Physical State: Liquid (sterile filtered)

Enzyme Concentration: 30,850 units/ml

Protein Concentration: 5.46 mg protein/ml

Specific Activity: 5650 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 at -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 units at 260 nm at 37° C 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 units of Ribonuclease A are incubated in a casein agarose plate for 48 hours at 37° C.

USDA Certification: All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation.

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.