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Product Datasheet

RNase A (DNase free), CAS [[9001-99-4]] BYT-ORB532708

Article Name	RNase A (DNase free), CAS [[9001-99-4]]
Biozol Catalog Number	BYT-ORB532708
Supplier Catalog Number	orb532708
Alternative Catalog Number	BYT-ORB532708-2
Manufacturer	Biorbyt
Category	Biochemikalien
Product Description	RNase A is an endoribonuclease that attacks at the 3-phosphate of a pyrimidine nucleotide. The sequence of pG-pG-pC-pA-pG will be cleaved to give pG-pG-pCp and A-pG. The highest activity is exhibited with ssRNA. RNase A is free of detectable DNase an...
Molecular Weight	Theoretical MW: 13.7 kDa (monomer)
Purity	90% (ion exchange chromatography), salt free, chromatographically homogeneous lyophilisate
Form	dry powder
CAS Number	[9001-99-4]

Application Notes

Biological Activity: 80 Kunitz units/mg. Application Notes: Plasmid and genomic DNA preparation Removal of RNA from recombinant protein preparations Ribonuclease protection assays Mapping single-base mutations in DNA or RNA. Working concentration: 1-100 µg/ml (depending on application). The enzyme is active under a wide range of reaction conditions. At low salt concentrations (0 to 100 mM NaCl), RNase cleaves ss and dsRNA as well as the RNA strand in RNA-DNA hybrids. At NaCl concentrations of 0.3 M or higher, RNase A specifically cleaves ssRNA. Stability: RNase A is an extremely stable enzyme, remarkable resistant to heating. It renatures easily after treatment with most denaturing agents. Isoelectric point (pI): 9.6. Optimal pH: 7.0 (activity range 6-10). Activity: 80 Kunitz units/mg. Unit definition: 1 Kunitz unit is that amount of activity which is capable of causing within 1 minute a decrease in absorbance at 300 nm equivalent to the maximum possible change in a 0.05% solution of yeast RNA at 25 C, pH 5.0. Inactivation: Ribonuclease inhibitor, Vanadyl-ribonucleoside complexes, arabi-nonucleosides, Zn²⁺, Cu²⁺, penicillin, Vitamin B12, SDS, DEPC, 4 M guanidinium thiocyanate plus 0.1 M 2-mercaptoethanol. Most polyan-ions show some inhibitory effect. Inactivated by phenol/chloroform extraction