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## Product Datasheet

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

Artikelname	RNase A (DNase free), CAS [[9001-99-4]]
Artikelnummer	BYT-ORB532708
Hersteller Artikelnummer	orb532708
Alternativnummer	BYT-ORB532708-2
Hersteller	Biorbyt
Kategorie	Biochemikalien
Produktbeschreibung	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...
Molekulargewicht	Theoretical MW: 13.7 kDa (monomer)
Reinheit	90% (ion exchange chromatography), salt free, chromatographically homogeneous lyophilisate
Formulierung	dry powder
CAS Nummer	[9001-99-4]

Anwendungsbeschreibung

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, Zn<sup>2+</sup>, Cu<sup>2+</sup>, 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