

Ver. 23.05

RNase A

Cat. No.: ORT405

Concentration: 10mg/mL

Description: RNase A is an endoribonuclease that specifically degrades single stranded RNA at C and U residues. 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.

Source: Isolated from bovine pancreas.

Applications

- Plasmid and genomic DNA preparation
- Removal of RNA from recombinant protein preparations
- Ribonuclease protection assays. Used in conjunction with RNase T1
- Mapping single-base mutations in DNA or RNA

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°C and pH 5.0.

Specific activity: $\geq 5000\text{U/mg protein}$.

Storage: Store at -20°C . Do not store in a frost-free freezer. This product is guaranteed for 6 months from the date of receipt, if properly stored.