RNase A, DNase and Protease-free, 10 mg/mL

FB02516001 10 mg

Store at -25°C to -15°C

RNase A, DNase and protease-free 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.

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.

Kit Contents

Reagent	Quantity
RNase A, DNase and Protease-free, 10 mg/mL	10 mg

Note:

- Recommended concentration of RNase A is 1-100 μg/mL depending on the application.
- The enzyme is active under a wide range of reaction conditions. At low salt concentrations (0 to 100 mM NaCl), RNase A cleaves single-stranded and double-stranded RNA as well the RNA strand in RNA-DNA hybrids. However, at NaCl concentrations of 0.3 M or higher, RNase A specifically cleaves single-stranded RNA.