

## RNase A (Molecular Biology Grade, DNase-free), 10 mg/ml

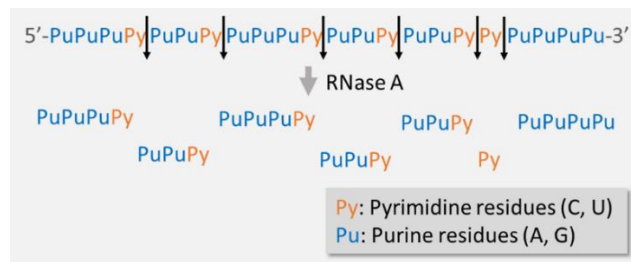
Catalog No. 40106S: 1 mL

Catalog No. 40106L: 5 mL

### Description

RNase A (ribonuclease A), isolated from bovine pancreas, is an enzyme composed of 124 amino acids with a molecular weight of 13.7 kDa. RNase A is an endonuclease that specifically cleaves the phosphodiester bonds in RNA molecules at the 3' end of pyrimidine residues (cytosine and uracil).

The RNA cleavage specificity may be different depending on the salt concentration. In the cases of low salt concentrations (for example, under 0.1 M of NaCl), RNase A cleaves both single-stranded RNA and double-stranded RNA, as well as the RNA molecule in RNA/DNA hybrids. In cases of high salt concentrations (for example, NaCl concentrations over 0.3 M), RNase A specifically cleaves single-stranded RNA.



RNase A can be used for genomic DNA and plasmid extraction, the removal of non-hybridized regions of RNA/DNA hybrids, degradation of unwanted RNA in gene expression analysis, and RNase protection assays. RNase A is very stable and hard to denature and degrade. The enzyme can be inhibited by RNase inhibitors and several chemicals.

### Application

- RNA removal from genomic DNA and plasmid DNA extraction
- RNA removal from protein extraction
- Degradation of unwanted RNA in gene expression analysis
- Ribonuclease related assays

### Specification

- Concentration: 10 mg/ml
- Grade: Molecular biology grade
- Source: Bovine pancreas
- Molecular weight: 13.7 kDa
- Shipping: At room temperature. Upon receipt, store at -20°C.
- Storage: -20°C. Stable up to 12 months.
- Storage Buffer: 50 mM Tris-HCl (pH 7.5), 50% glycerol
- Optimal pH: 7.0 - 8.0
- Optimal enzymatic temperature: 37°C
- Activity: ≥ 50 Kunitz units/mg
- DNase Contamination: Not detected
- Proteinase Contamination: Not detected

### Component

Catalog No.	40106S	40106L
RNase A (10 mg/ml)	1 ml	5 ml

### Quality Control

Reagent passed stringent functional quality test.

### Product Use Limitation




This product is developed and sold for research purposes and *in vitro* use only. Please refer to [biodynami.com](http://biodynami.com) for Material Safety Data Sheet of the product.

### Limited Label License

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