



## Ribonuclease A Solution

**Product Number: RA02**

---

### Description

Our Ribonuclease A Solution is a non-specific ribonuclease derived from bovine pancreas that has been modified through protein engineering technology. It is obtained through yeast expression and purification. It does not contain bacterial endotoxins expressed by prokaryotes. Functionally, RNase A is a ribonuclease that can hydrolyze the phosphodiester bond between the 5' - ribose on a nucleoside and the phosphate group on the adjacent pyrimidine nucleoside 3' - ribose. The resulting 2', 3' - cyclic phosphate can be hydrolyzed into the corresponding 3' - nucleoside phosphate. Therefore, single stranded RNA can be specifically degraded at the positions of C and U nucleotide residues. RNase A is very stable. RNase A exhibits high efficacy when acting on single stranded RNA.

This product is widely used to remove RNA contamination from DNA or protein samples.

This product is free from contamination by endonucleases and exonucleases, as well as protease contamination.

Level	Molecular biological grade, sterile liquid
Product Number	RA02
CAS Number	9001-99-4
E.C.	3.1.27.5
Source	Recombinant yeast
Molecular Weight	14.3 kD
Dilution Buffer	10mM Tris-HCl(pH 8.0),20mM MgCl <sub>2</sub>
Storage Buffer	10mM Tris-HCl(pH 8.0),20 mM MgCl <sub>2</sub> ,50% glycerol
Storage	Can be transported with blue ice or at room temperature, and stored below -20°C after receipt.
Shelf life	After opening the packaging and using it, if it is left in an environment of 2-8°C for more than a week, it is recommended to filter and sterilize it to prevent microbial contamination.

### Quality Index

Appearance	Light yellow transparent solution
Electrophoretic Purity	≥90%(SDS-PAGE)
Activity	≥350kunitz Units/ml
Specific activity	≥1000kU/mg protein
DNA and RNA	Invisible
DNase	Invisible
Protease K	< 0.01U/mg
Endomycin	Not detected
Sterility test	Not detected
pH	7.6 (working range pH 6-10)
Optimum temperature	60°C (working range 15-70°C)
Protocol	The storage concentration is 10mg/ml. The recommended working concentration is 10-20µg/ml. The working solution should be diluted with diluent or ensure that there is 20mM Mg <sup>2+</sup> in the working substrate.

### Note

For your safety and health, please wear lab clothes and protective gloves when using.