RNase I

Ribonuclease I

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Completely nonspecific ribonuclease that hydrolyzes phosphodiester bond after all four bases.

Cat. No.	Size
E1300-01	10 000 units
E1300-02	50 000 units

Unit Definition:
One unit is the amount of enzyme required to degrade 1 µg of RNA in 30 minutes at 37˚C, as detected by TCA precipitation..

Storage Conditions:
Store at -20˚C

Description:

- Only available RNase that cleaves the phosphodiester bond of all four bases.
- Degrades RNA to cyclic nucleotide monophosphates leaving a 5'-OH and 2'-, 3'-cyclic monophosphate.
- Prefers single-stranded RNA to double-stranded RNA.
- Produced from an overexpressing clone in *E. coli* (2).
- Contains no endonuclease or exonuclease activity toward DNA substrates.
- No need for boiling prior to use.
- Ideal for ribonuclease protection assays.
- Useful for mapping or quantitation of RNA by selective cleavage of single-strand regions.

Storage Buffer:

10 mM Tris-HCl (pH 8.0 at 22°C), 200 mM NaCl, 50% [v/v] glycerol.

Quality Control:

All preparations are assayed for contaminating exonuclease and nonspecific endonuclease activities.

References:

1. *Meador, J. III and Kennell, D. (1990) Gene 95, 1-7.*
2. *Meador, J. III et. al. (1990) Eur. J. Biochem. 187, 549.*

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