

## Ribonuclease H

**Cat. Nos.**  
**18021-014**

**Size:**  
**30 units**

**Conc. 2 U/μl**

**Store at –20°C (not frost-free)**

### Description

Ribonuclease H (RNase H) is an endoribonuclease which specifically degrades the RNA strand of an RNA-DNA hybrid to produce 5' phosphate-terminated oligoribonucleotides and single-stranded DNA. It is suitable for removing mRNA during second strand cDNA synthesis, removing the poly(A) sequences from mRNA in the presence of oligo(dT), and for oligodeoxyribonucleotide-directed cleavage of RNA. RNase H is purified from *E. coli* expressing the *E. coli* RNase H gene on a plasmid.

### Unit Definition

One unit is defined as the amount of RNase H that solubilizes 1 nmol poly(A) in 20 minutes at +37°C

### Storage Buffer

20 mM Tris-HCl (pH 7.5)  
100 mM KCl  
10 mM MgCl<sub>2</sub>  
0.1 mM EDTA  
0.1 mM DTT  
50 μg/ml BSA  
50% (v/v) glycerol

### Quality Control

Product qualification is described in the Certificate of Analysis (CofA), available on our website by product lot number at [www.invitrogen.com/cofa](http://www.invitrogen.com/cofa).

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