Cat. No.: RK20535



## **Product components**

Components	Component Number	250 U	1250 U
RNase H (5,000 U/mL)	RM21305	50 μL	250 μL
10X RNase H Reaction Buffer	RM20142	1.25 mL	1.25 mL

# **Product Description**

RNase H (Ribonuclease H) is an endoribonuclease that specifically hydrolyzes the phosphodiester bonds of RNA which is hybridized to DNA. This enzyme does not digest single or double-stranded DNA.

#### **Product Source**

An *E.coli* strain that carries the cloned RNase H gene (rnh) from *Escherichia coli*.

## **Storage Temperature**

-20°C

### **Unit Definition**

One unit is defined as the amount of enzyme required to produce 1 nmol of ribonucleotides from 20 picomoles of a fluorescently labelled 50 base pair RNA-DNA hybrid in a total reaction volume of 50  $\mu$ L in 20 minutes at 37°C.

### **Reaction Conditions**

1X RNase H Reaction Buffer, Incubate at 37°C

#### 1X RNase H Reaction Buffer

50 mM Tris-HCl, 75 mM KCl, 3 mM MgCl<sub>2</sub>, 10 mM dithiothreitol, pH 8.3 @ 25°C

### **Storage Conditions**

10 mM Tris-HCl, 50 mM KCl, 0.1 mM EDTA, 1 mM DTT, 200  $\mu$ g/mL Recombinant Albumin, 50% Glycerol, pH7.4 @ 25°C

### **Heat Inactivation**

65°C for 20 min

### **QC Process**

- ◆ Purity is above 95% detected by SDS-PAGE.
- No endonucleases, ss-DNase and other RNases contamination.
- No residual host genomic DNA detected by PCR.