

RNase H



Catalog: RK20535

Size: 250 U / 1,250 U

Concentration: 5,000 U/ml

Components:

RNase H (5,000 U/ml)	RM21305
10X RNase H Reaction Buffer	RM20142

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*.

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 µl in 20 minutes at 37°C.

Storage Temperature: -20°C

Storage Conditions:

10 mM Tris-HCl, 50 mM KCl, 0.1 mM EDTA, 1 mM DTT, 200 µg/ml BSA, 50% Glycerol, pH7.4 @ 25°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 MgCl₂, 10 mM dithiothreitol, pH 8.3 @ 25°C

Heat Inactivation: 65°C for 20 min

QC Process:

- ◆ Purity (SDS-PAGE) is above 95%.
- ◆ No endonuclease, ss-DNase, or other RNase contamination.
- ◆ No residual host genomic DNA detected by PCR.