



38080

## Ribonuclease H (RNase H) (5U/ul)

Part E

### Specifications

Appearance (Form)	Liquid
Appearance (Colour)	Colourless
Appearance (Clarity)	Clear
DNase activity	None detected
Protease activity	None detected
Concentration	5U/μl

### Other Information

Description

RNase H is a 18.9 kDa recombinant endoribonuclease purified from an Escherichia coli strain, which over-expresses cloned RNase H gene (rnh). The enzyme hydrolyses specifically the phosphodiester bonds of RNA hybridized to DNA and produces 5' phosphate-terminated oligoribonucleotides and single-stranded DNA.

Rnase H does not degrade single and double-stranded DNA or unhybridized RNA. It is a key enzyme in the removal of mRNA after first-strand cDNA synthesis. Treating cDNA with RNase H prior to PCR can improve sensitivity as RNA bonded to the cDNA template may prevent binding of the amplification primers in a PCR reaction. RNase H treatment is often necessary when amplifying longer, full-length cDNA targets. In addition, RNase H is useful for the removal of poly(A) tails on mRNAs after hybridization with oligo(dT) and also for the site-specific enzymatic cleavage of RNA.

#### Applications

Removal of RNA after first strand cDNA synthesis (RT-PCR and qRT-PCR)  
Removal of mRNA prior to synthesis of second strand cDNA  
Removal of the poly(A) sequences of mRNA after hybridization with oligo(dT)  
Site-specific cleavage of RNA  
Studies of in vitro polyadenylation reaction products

50U  
RNase H (5U/mcl) - 10mcl  
10 X RNase H Reaction Buffer - 40 mcl

Includes

250U  
RNase H (5U/mcl) - 50mcl  
10 X RNase H Reaction Buffer - 200 mcl

## General Information

Storage	-20 °C (Blue/Dry Ice)
Shelf Life	24 Months
IMDG Identification	Not Regulated for Transport (Non-Haz)
HSN Code	
250 Units	35079099 (GST 18%)
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## Available Packages

50 Units

250 Units

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### Disclaimer

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