Tinzyme Co., Limited

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RNase H

Product Number: RN03

Shipping and Storage

Store at -20℃ or -80℃ for long-term storage

Components

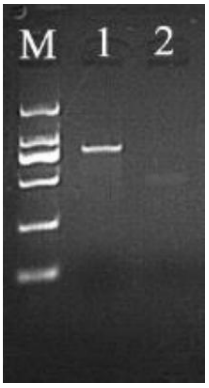
Component	RN03
RNase H (5U/μl)	50μl
10×RNase H Reaction Buffer	1ml

Description

RNase H is a ribonuclease that can specifically cleave RNA phosphodiester bonds hybridized onto DNA strands, thus degrading RNA strands in RNA/DNA heterozygous strands. This enzyme cannot digest single or double stranded DNA and is derived from recombinant E. coli strains, carrying the RNase H (rnh) gene cloned from E. coli.

Application

1. Remove mRNA that is heterozygous with the first strand cDNA when synthesizing the second strand cDNA;
2. Remove mRNA poly (A) hybridized to poly (dT).



RNase H degrades DNA/RNA heterozygous double strands.

Lane 1: The DNA/RNA heterozygous double stranded fragment is 810bp;

Lane2: After degradation by RNaseH, only single stranded DNA remains after DNA/RNA heterozygous double stranded DNA.

Unit definition

The amount of enzyme required to fully digest RNA from 1nmol [H3] labeled poly (rA) and poly (dT) hybridized double stranded RNA into ribonucleotides is defined as one active unit, using poly (rA)•poly (dT) as the substrate and under 37℃ conditions for 20 minutes.

Reaction conditions

1×Reaction buffer, incubate at 37℃ for 20 minutes, heat inactivate at 65℃ for 20 minutes.

Quality control

After multiple column purification, only a clear and single target band was visible in SDS-PAGE gel detection, and there was no residual Escherichia coli DNA detected by PCR method, and no contamination of nucleic acid endonucleases or exonucleases.