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New England Biolabs Certificate of Analysis

Product Name: RNase H M0297S Catalog Number: Concentration: 5,000 U/ml

Unit Definition: One unit is defined as the amount of enzyme required to produce 1

nmol of ribonucleotides from 20 picomoles of a fluorescently labeled 50 base pair RNA-DNA hybrid in a total reaction volume of 50 μl in

20 minutes at 37°C.

10166719 Packaging Lot Number: Expiration Date: 05/2024 Storage Temperature: -20°C

Storage Conditions: 10 mM Tris-HCl , 50 mM KCl , 1 mM DTT , 0.1 mM EDTA , 200 μ g/ml BSA

, 50 % Glycerol, (pH 7.4 @ 25°C)

PS-M0297S/L v1.0 Specification Version:

RNase H Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
M0297SVIAL	RNase H	10150795	Pass
B0297SVIAL	RNase H Reaction Buffer	10140272	Pass

Assay Name/Specification	Lot # 10166719
RNase Activity (Extended Digestion) A 10 µl reaction in NEBuffer 4 containing 40 ng of a 300 base single-stranded RNA and a minimum of 1 µl of RNase H is incubated at 37°C. After incubation for 16 hours, >90% of the substrate RNA remains intact as determined by gel electrophoresis using fluorescent detection.	Pass
qPCR DNA Contamination (E. coli Genomic) A minimum of 5 units of RNase H is screened for the presence of E. coli genomic DNA using SYBR® Green qPCR with primers specific for the E. coli 16S rRNA locus. Results are quantified using a standard curve generated from purified E. coli genomic DNA. The measured level of E. coli genomic DNA contamination is ≤ 1 E. coli genome.	Pass
Protein Purity Assay (SDS-PAGE) RNase H is ≥ 95% pure as determined by SDS-PAGE analysis using Coomassie Blue detection.	Pass
Endonuclease Activity (Nicking)	Pass



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This product has been tested and shown to be in compliance with all specifications.

One or more products referenced in this document may be covered by a 3rd-party trademark. Please visit www.neb.com/trademarks for additional information.

Tim Meixsell Production Scientist

releases <0.1 of the total radioactivity.

11 May 2022

Josh Hersey

Packaging Quality Control Inspector

27 Oct 2022



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