

240 County Road Ipswich, MA 01938-2723 Tel 978-927-5054 Fax 978-921-1350 www.neb.com info@neb.com

New England Biolabs Certificate of Analysis

Product Name: RNase H
Catalog Number: M0297S
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 μ l in

20 minutes at 37°C.

Packaging Lot Number: 10077447
Expiration Date: 02/2022
Storage Temperature: -20°C

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

, 50 % Glycerol, (pH 7.4 @ 25°C)

Specification Version: PS-M0297S/L v1.0

RNase H Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
M0297SVIAL	RNase H	10065820	Pass	
B0297SVIAL	RNase H Reaction Buffer	10064336	Pass	

Assay Name/Specification	Lot # 10077447
Endonuclease Activity (Nicking) A 50 μl reaction in RNase H Reaction Buffer containing 1 μg of supercoiled PhiX174 DNA and a minimum of 50 units of RNase H incubated for 4 hours at 37°C results in <10% conversion to the nicked form as determined by agarose gel electrophoresis.	Pass
Exonuclease Activity (Radioactivity Release, Single Stranded) A 50 µl reaction in RNase H Reaction Buffer containing 1 µg of single stranded [³H] E. coli DNA and a minimum of 50 units of RNase H incubated for 30 minutes at 37°C releases <0.1 of the total radioactivity.	Pass
Protein Purity Assay (SDS-PAGE) RNase H is ≥ 95% pure as determined by SDS-PAGE analysis using Coomassie Blue 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	Pass



M0297S / Lot: 10077447

Page 1 of 2

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

Timothy Meixsell Production Scientist

22 Jul 2020

Michael Tonello

Packaging Quality Control Inspector

22 Jul 2020

