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## New England Biolabs Certificate of Analysis

Product Name: RNase H
Catalog Number: M0297L
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  $\mu$ l in

20 minutes at 37°C.

Packaging Lot Number: 10081854
Expiration Date: 08/2021
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				
<b>NEB Part Number</b>	Component Description	Lot Number	Individual QC Result	
M0297LVIAL	RNase H	10050890	Pass	
B0297SVIAL	RNase H Reaction Buffer	10064336	Pass	

Pass
Pass
Pass
Pass
Fass



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Assay Name/Specification	Lot # 10081854
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.	
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

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.

Timothy Meixsell Production Scientist 18 Sep 2020 Michael Tonello

Packaging Quality Control Inspector 18 Sep 2020

