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New England Biolabs Certificate of Analysis

Product Name: RNase HII
Catalog Number: M0288L
Concentration: 5,000 U/ml

Unit Definition:

One unit is defined as the amount of enzyme required to yield a

fluorescence signal consistent with the nicking of 100 pmol of synthetic double-stranded DNA substrate containing a single ribonucleotide near the quencher of a fluorophore/quencher pair in

30 minutes at 37°C in 1X ThermoPol® Reaction Buffer.

Packaging Lot Number: 10079380
Expiration Date: 07/2022
Storage Temperature: -20°C

Storage Conditions: 20 mM Tris-HCl, 100 mM NaCl, 1 mM DTT, 1 mM EDTA, 50 % Glycerol, (pH

8.0 @ 25°C)

Specification Version: PS-M0288S/L v1.0

RNase HII Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
M0288LVIAL	RNase HII	10079379	Pass
B9004SVIAL	ThermoPol® Reaction Buffer Pack	10067018	Pass

Assay Name/Specification	Lot # 10079380
Endonuclease Activity (Nicking) A 50 μl reaction in NEBuffer 4 containing 1 μg of supercoiled pBR322 DNA and a minimum of 5 units of RNase HII 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) A 50 μl reaction in NEBuffer 4 containing 1 μg of a mixture of single and double-stranded [³H] E. coli DNA and a minimum of 50 units of RNase HII incubated for 4 hours at 37°C releases <0.1% of the total radioactivity.	Pass
RNase Activity (Extended Digestion) A 10 µl reaction in NEBuffer 4 containing 3.3 pmol of a synthetic RNA oligo (26-mer) and a minimum of 50 units of RNase HII is incubated at 37°C. After incubation for 2 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.



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Timothy Meixsell Production Scientist

28 Sep 2020

Michael Tonello

Packaging Quality Control Inspector

28 Sep 2020

