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New England Biolabs Certificate of Analysis

Product Name: RNA 5' Pyrophosphohydrolase (RppH)

Catalog Number: M0356S
Concentration: 5,000 U/ml

Unit Definition: One unit is the amount of enzyme that converts 1 µg 300 mer RNA

transcript into a XRN-1 digestible RNA in 30 minutes at 37°C.

Packaging Lot Number: 10170000
Expiration Date: 06/2024
Storage Temperature: -20°C

Storage Conditions: 200 mM NaCl, 20 mM Tris-HCl, 1 mM DTT, 0.1 mM EDTA, 50% Glycerol,

0.01% Triton®X-100, (pH 7.5 @ 25°C)

Specification Version: PS-M0356S v1.0

RNA 5' Pyrophosphohydrolase (RppH) Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
M0356SVIAL	RNA 5' Pyrophosphohydrolase (RppH)	10153976	Pass	
B7002SVIAL	NEBuffer™ 2	10162785	Pass	

Assay Name/Specification	Lot # 10170000
Phosphatase Activity (pNPP) A 200 µl reaction in 1M Diethanolamine, pH 9.8, 0.5 mM MgCl2 containing 2.5 mM p-Nitrophenyl Phosphate (pNPP) and a minimum of 25 units of RNA 5' Pyrophosphohydrolase (RppH) incubated for 4 hours at 37°C yields <0.0001 unit of alkaline phosphatase activity as determined by spectrophotometric analysis.	Pass
Protein Purity Assay (SDS-PAGE) RNA 5' Pyrophosphohydrolase (RppH) is ≥ 95% pure as determined by SDS-PAGE analysis using Coomassie Blue detection.	Pass
RNase Activity Assay (4 Hour Digestion) A 10 µl reaction in NEBuffer 4 containing 40 ng of a 300 base single-stranded RNA and a minimum of 5 units of RNA 5' Pyrophosphohydrolase (RppH) is incubated at 37°C. After incubation for 4 hours, >90% of the substrate RNA remains intact as determined by gel electrophoresis using fluorescent detection.	Pass
Endonuclease Activity (Nicking) A 50 μl reaction in NEBuffer 2 containing 1 μg of supercoiled PhiX174 DNA and a minimum of 25 units of RNA 5' Pyrophosphohydrolase (RppH) incubated for 4 hours at	Pass



M0356S / Lot: 10170000

Page 1 of 2

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

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Bo Wu

Production Scientist

03 Jun 2022

Michael Tonello

Packaging Quality Control Inspector

28 Oct 2022



M0356S / Lot: 10170000

Page 2 of 2