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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.

Lot Number: 10040136
Expiration Date: 04/2021
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)	10037152	Pass	
B7002SVIAL	NEBuffer™ 2	10033147	Pass	

Assay Name/Specification	Lot # 10040136
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 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 2 containing 1 μg of a mixture of single and double-stranded [³H] E. coli DNA and a minimum of 25 units of RNA 5' Pyrophosphohydrolase (RppH) incubated for 4 hours at 37°C releases <0.1% of the total radioactivity.	Pass
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)	Pass



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by gel electrophoresis using fluorescent detection.

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

Tony Spear-Alfonso Production Scientist

10 Jan 2019

Michael Tonello

Packaging Quality Control Inspector

03 Apr 2019

