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New England Biolabs Certificate of Analysis

Product Name: Pyrophosphatase, Inorganic (E. coli)

Catalog Number: M0361L Concentration: 100 U/ml

Unit Definition: One unit is the amount of enzyme that will generate 1 µmol of

phosphate per minute from inorganic pyrophosphate under standard

reaction conditions.

Packaging Lot Number: 10235966 Expiration Date: 03/2026 Storage Temperature: -20°C

Storage Conditions: 100 mM NaCl , 20 mM Tris-HCl (pH 8.0), 1 mM DTT , 0.1 mM EDTA , 50 %

Glycerol

Specification Version: PS-M0361S/L v2.0

Pyrophosphatase, Inorganic (E. coli) Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
M0361LVIAL	Pyrophosphatase, Inorganic (E. coli)	10225745	Pass	

Assay Name/Specification	Lot # 10235966
Endonuclease Activity (Nicking) A 50 μl reaction in NEBuffer 4 containing 1 μg of supercoiled PhiX174 DNA and a minimum of 0.5 units of Pyrophosphatase, Inorganic (E. coli) 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 0.5 units of Pyrophosphatase, Inorganic (E. coli) incubated for 4 hours at 37°C releases <0.1% of the total radioactivity.	Pass
Phosphatase Activity (pNPP) A 100 µl reaction in NEBuffer 4 containing 10 mM p-Nitrophenyl Phosphate (pNPP) and a minimum of 1 unit Pyrophosphatase, Inorganic (E. coli) incubated for 1 hour 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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Assay Name/Specification	Lot # 10235966
Pyrophosphatase, Inorganic (E. coli) is ≥ 95% pure as determined by SDS-PAGE analysis using Coomassie Blue detection.	
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 0.1 unit of Pyrophosphatase, Inorganic (E. coli) 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.

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Dongxian Yue Production Scientist 23 Feb 2024

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Josh Hersey

Packaging Quality Control Inspector

13 Mar 2024

