

RY 240 County Road Ipswich, MA 01938-2723

Tel 978-927-5054 Fax 978-921-1350 www.neb.com info@neb.com

New England Biolabs Certificate of Analysis

Product Name: Pyrophosphatase, Inorganic (E. coli)

Catalog Number: M0361S 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: 10106739
Expiration Date: 05/2023
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	
M0361SVIAL	Pyrophosphatase, Inorganic (E. coli)	10106737	Pass	

Assay Name/Specification	Lot # 10106739
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



M0361S / Lot: 10106739

Page 1 of 2

determined by gel electrophoresis using fluorescent detection.

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.

Bhairavi Jani Production Scientist 18 May 2021 Michael Tonello

Packaging Quality Control Inspector

18 May 2021



M0361S / Lot: 10106739

Page 2 of 2