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New England Biolabs Certificate of Analysis

Product Name: Pyrophosphatase, inorganic (yeast)

Catalog Number: M2403L 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: 10069187
Expiration Date: 03/2022
Storage Temperature: -20°C

Storage Conditions: 100 mM KCI, 20 mM Tris-HCl, 1 mM DTT, 0.1 mM EDTA, 50 % Glycerol,

(pH 8.0 @ 25°C)

Specification Version: PS-M2403S/L v2.0

Pyrophosphatase, inorganic (yeast) Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
M2403LVIAL	Pyrophosphatase, inorganic (yeast)	10069186	Pass	

Assay Name/Specification	Lot # 10069187
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 (yeast) 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
Phosphatase Activity (pNPP) A 100 µl reaction in NEBuffer 3 containing 10 mM p-Nitrophenyl Phosphate (pNPP) and a minimum of 1 unit Pyrophosphatase, Inorganic (yeast) incubated for 1 hour at 37°C yields <0.0001 unit of alkaline phosphatase activity as determined by spectrophotometric analysis.	Pass
Non-Specific DNase Activity (16 Hour) A 50 µl reaction in NEBuffer 4 containing 1 µg of Lambda DNA and a minimum of 1 unit of Pyrophosphatase, Inorganic (yeast) incubated for 16 hours at 37°C results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis.	Pass
Exonuclease Activity (Radioactivity Release)	Pass



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

and a minimum of 1 unit Pyrophosphatase, Inorganic (yeast) incubated for 1 hour at 37°C results in <0.05 µmol of inorganic phosphate from dNTPs as determined by the

Tim Meixsell Production Scientist

Zimothy Meupel

10 Mar 2020

AAM assay.

Josh Hersey

Packaging Quality Control Inspector

18 Mar 2020



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