

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: Apyrase
Catalog Number: M0398L
Concentration: 500 U/ml

Unit Definition: One unit is defined as the amount of enzyme that catalyses the

release of 1 µmol of inorganic phosphate from ATP in 1 minute at

30°C in a total reaction of 50 μl.

Packaging Lot Number: 10182399
Expiration Date: 10/2024
Storage Temperature: -20°C

Storage Conditions: 20 mM MES, 50 mM NaCl, 1 mM DTT, 0.1 mM CaCl2, 0.1 % Tween® 20, 50 %

Glycerol, (pH 6.5 @ 25°C)

Specification Version: PS-M0398S/L v1.0

Apyrase Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
M0398LVIAL	Apyrase	10182398	Pass	
B0398SVIAL	Apyrase Reaction Buffer	10149806	Pass	

Assay Name/Specification	Lot # 10182399
Endonuclease Activity (Nicking) A 50 μl reaction in Apyrase Reaction Buffer containing 1 μg of supercoiled PhiX174 DNA and a minimum of 5 units of Apyrase incubated for 4 hours at 30°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 Apyrase Reaction Buffer containing 1 µg of a mixture of single and double-stranded [³H] E. coli DNA and a minimum of 5 units of Apyrase incubated for 4 hours at 30°C releases <0.1% of the total radioactivity.	Pass
Non-Specific DNase Activity (16 Hour) A 50 µl reaction in NEBuffer 4 containing 1 µg of PhiX174-HaeIII DNA and a minimum of 5 units of Apyrase incubated for 16 hours at 37°C results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis.	Pass
Phosphatase Activity (pNPP) A 200 µl reaction in 1M Diethanolamine, pH 9.8, 0.5 mM MgCl2 containing 2.5 p-Nitrophenyl Phosphate (pNPP) and a minimum of 5 units of Apyrase incubated for 4	Pass



M0398L / Lot: 10182399

Page 1 of 2

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.

Ana Egana Production Scientist 21 Apr 2023 Michael Tonello

Packaging Quality Control Inspector

21 Apr 2023



M0398L / Lot: 10182399

Page 2 of 2