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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: 10067999
Expiration Date: 08/2021
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	10064779	Pass	
B0398SVIAL	Apyrase Reaction Buffer	10020202	Pass	

Assay Name/Specification	Lot # 10067999
Endonuclease Activity (Nicking) A 50 µl reaction in Apyrase Reaction Buffer containing 1 µg of supercoiled PhiX174	Pass
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.	
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)	Pass
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	



M0398L / Lot: 10067999

Page 1 of 2

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

Ana Egana
Production Scientist

using fluorescent detection.

28 Apr 2020

Minichiello

Packaging Quality Control Inspector

28 Apr 2020



M0398L / Lot: 10067999

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Page 2 of 2