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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: 10218907 Expiration Date: 07/2025 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				
<b>NEB Part Number</b>	Component Description	Lot Number	Individual QC Result	
B0398SVIAL	Apyrase Reaction Buffer	10181129	Pass	

Assay Name/Specification	Lot # 10218907
Endonuclease Activity (Nicking)	Pass
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.	
Exonuclease Activity (Radioactivity Release)	Pass
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.	
Non-Specific DNase Activity (16 Hour)	Pass
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.	
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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	
hours at 37°C yields <0.0001 unit of alkaline phosphatase activity as determined by	



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

hours, >90% of the substrate RNA remains intact as determined by gel electrophoresis

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Ana Egana Production Scientist 12 Jan 2024

using fluorescent detection.

Michael Tonello

Packaging Quality Control Inspector

12 Jan 2024

