

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: 10149232
Expiration Date: 10/2023
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	
M0398LVIAL	Apyrase	10144363	Pass	
B0398SVIAL	Apyrase Reaction Buffer	10111626	Pass	

Assay Name/Specification	Lot # 10149232
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
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
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
Protein Purity Assay (SDS-PAGE) Apyrase is ≥ 95% pure as determined by SDS-PAGE analysis using Coomassie Blue detection.	Pass



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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 20 Apr 2022

using fluorescent detection.

Erin Varney

Packaging Quality Control Inspector

20 Apr 2022



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