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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.

Lot Number: 10016796
Expiration Date: 01/2020
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	10015074	Pass	
B0398SVIAL	Apyrase Reaction Buffer	0031704	Pass	

Assay Name/Specification	Lot # 10016796
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 1 µl of Apyrase is incubated at 37°C. After incubation for 16 hours, >90% of the substrate RNA remains intact as determined by gel electrophoresis using fluorescent detection.	Pass
Protein Purity Assay (SDS-PAGE) Apyrase is ≥ 95% pure as determined by SDS-PAGE analysis using Coomassie Blue detection.	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 hours at 37°C yields <0.0001 unit of alkaline phosphatase activity as determined by spectrophotometric analysis.	Pass
Endonuclease Activity (Nicking) A 50 µl reaction in Apyrase Reaction Buffer containing 1 µg of supercoiled PhiX174	Pass



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

of detectable nuclease degradation as determined by agarose gel electrophoresis.

Ana Egana
Production Scientist

30 Jul 2018

Michael Tonello

Packaging Quality Control Inspector

30 Jul 2018

