

New England Biolabs Certificate of Analysis

Product Name: *NudC Pyrophosphatase*
Catalog Number: *M0607S*
Concentration: *10 µM*
Unit Definition: *One µM of NudC Pyrophosphatase can hydrolyze ≥200 µM of NAD⁺ into NMN⁺ and AMP in 30 minutes at 37°C.*
Packaging Lot Number: *10200626*
Expiration Date: *06/2024*
Storage Temperature: *-20°C*
Storage Conditions: *10 mM Tris-HCl , 300 mM NaCl , 1 mM DTT , 0.1 mM EDTA , 50 % Glycerol, (pH 7.4 @ 25°C)*
Specification Version: *PS-M0607S v1.0*

NudC Pyrophosphatase Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
M0607SVIAL	NudC Pyrophosphatase	10191802	Pass
B6003SVIAL	NEBuffer™ r3.1	10182162	Pass
B1222AVIAL	0.1M DTT	10196328	Pass

Assay Name/Specification	Lot # 10200626
Endonuclease Activity (Nicking) A 50 µl reaction in NEBuffer 3.1 containing 1 µg of supercoiled PhiX174 DNA and a minimum of 1 µM of NudC Pyrophosphatase incubated for 4 hours at 37°C results in <10% conversion to the nicked form as determined by agarose gel electrophoresis.	Pass
Protein Purity Assay (SDS-PAGE) NudC Pyrophosphatase is ≥ 95% pure as determined by SDS-PAGE analysis using Coomassie Blue detection.	Pass
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 NudC Pyrophosphatase 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

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

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Jenna Ware
Production Scientist
12 Jul 2023



Michael Tonello
Packaging Quality Control Inspector
17 Jul 2023