

## 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<sup>+</sup> into NMN<sup>+</sup> and AMP in 30 minutes at 37°C.*  
**Packaging Lot Number:** *10182299*  
**Expiration Date:** *02/2024*  
**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	10169002	Pass
B6003SVIAL	NEBuffer™ r3.1	10168652	Pass
B1222AVIAL	0.1M DTT	10174939	Pass

Assay Name/Specification	Lot # 10182299
<b>Endonuclease Activity (Nicking)</b> 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
<b>Protein Purity Assay (SDS-PAGE)</b> NudC Pyrophosphatase is ≥ 95% pure as determined by SDS-PAGE analysis using Coomassie Blue detection.	Pass
<b>RNase Activity (Extended Digestion)</b> 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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27 Feb 2023



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28 Feb 2023