

New England Biolabs Certificate of Analysis

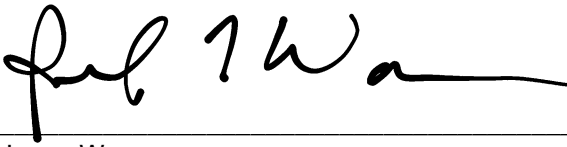
Product Name: *NudC Pyrophosphatase*
Catalog Number: *M0607S*
Concentration: *10 µM*
Unit Definition: *One µM of NudC Pyrophosphatase can hydrolyze ≥200 µM of NAD⁺ into NMN⁺ and AMP in 30 minutes at 37°C.*
Packaging Lot Number: *10102716*
Expiration Date: *01/2022*
Storage Temperature: *-20°C*
Storage 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 | 10102715 | Pass |
| B6003SVIAL | NEBuffer™ r3.1 | 10103929 | Pass |
| B1222AVIAL | 0.1M DTT | 10065839 | Pass |

| Assay Name/Specification | Lot # 10102716 |
|---|----------------|
| 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
29 Apr 2021



Michael Tonello
Packaging Quality Control Inspector
29 Apr 2021