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New England Biolabs Certificate of Analysis

Product Name: 5' DNA Adenylation Kit

Catalog Number:E2610SConcentration:50 μMPackaging Lot Number:10148951Expiration Date:04/2024Storage Temperature:-20°C

Specification Version: PS-E2610S/L v1.0

5' DNA Adenylation Kit Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
N0757AVIAL	Adenosine 5' Triphosphate	10145558	Pass	
M2611AVIAL	Mth RNA Ligase	10145557	Pass	
B2610SVIAL	5' DNA Adenylation Reaction Buffer	10145559	Pass	

Assay Name/Specification	Lot # 10148951
* Individual Product Component Note Standard Quality Control Tests are performed for each component included in 5' DNA Adenylation Kit and meet the designated specifications.	Pass
RNase Activity Assay (4 Hour Digestion) A 10 µl reaction in NEBuffer 4 containing 40 ng of a 300 base single-stranded RNA and a minimum of 50 pmol of Mth RNA Ligase is incubated at 37°C. After incubation for 4 hours, >90% of the substrate RNA remains intact as determined by gel electrophoresis using fluorescent detection.	Pass
Phosphatase Activity (pNPP) A 200 µl reaction in 1M Diethanolamine, pH 9.8, 0.5 mM MgCl2 containing 2.5 mM p-Nitrophenyl Phosphate (pNPP) and a minimum of 50 pmol of Mth RNA Ligase incubated for 4 hours at 37°C yields <0.0001 unit of alkaline phosphatase activity as determined by spectrophotometric analysis.	Pass
Functional Testing (Adenylation) A 20 μl reaction in 1X 5' DNA Adenylation Reaction Buffer containing 100 pmol of 17 bp long 5'P-ssDNA linker (5´-pCTGTAGGCACCATCAAT–NH2-3´), 0.1 mM ATP, and 100 pmol of Mth RNA Ligase incubated for 1 hour at 65°C results in ≥95% 5'P-ssDNA linker adenylated.	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.

Bhairavi Jani Production Scientist

10 May 2022

detection.

Michael Tonello

Packaging Quality Control Inspector

10 May 2022



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