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New England Biolabs Certificate of Analysis

Product Name: m7G(5')ppp(5')G RNA Cap Structure Analog

Catalog Number: \$1404\$ Lot Number: 10050151 Expiration Date: 05/2022 Storage Temperature: -20°C

Storage Conditions: Supplied as a lyophilized Sodium salt

Specification Version: PS-S1404S/L v1.0

m7G(5')ppp(5')G RNA Cap Structure Analog Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
S1404SVIAL	m ⁷ G(5')ppp(5')G RNA Cap Structure Analog	10042649	Pass	

Assay Name/Specification	Lot # 10050151
Physical Purity (HPLC) m7G(5')ppp(5')G RNA Cap Structure Analog is ≥ 95% pure as determined by HPLC analysis.	Pass
Molecular Weight Determination (Mass Spectrometry) The molecular weight of m7G(5')ppp(5')G RNA Cap Structure Analog is between 802.4 and 804.4 as determined by mass spectrometry analysis.	Pass
Functional Testing (Incorporation using RNA Polymerase) A 20 µl reaction in RNA Polymerase Reaction Buffer in the presence of 4 mM NTPs +/-m7G(5')ppp(5')G RNA Cap Structure Analog containing 2 µg of template DNA and 50 units of T7 RNA Polymerase incubated for 2 hours at 37°C results in the expected product as determined by polyacrylamide gel electrophoresis.	Pass

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



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Nancy Considine Production Scientist 30 Aug 2019 Michael Tonello

Packaging Quality Control Inspector

30 Aug 2019

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