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## New England Biolabs Certificate of Analysis

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

Catalog Number: \$1405L
Packaging Lot Number: 10106604
Expiration Date: 04/2024
Storage Temperature: -20°C

Storage Conditions: Supplied as a lyophilized Sodium salt

Specification Version: PS-S1405S/L v1.0

m7G(5')ppp(5')A RNA Cap Structure Analog Component List				
<b>NEB Part Number</b>	Component Description	Lot Number	Individual QC Result	
S1405SVIAL	m <sup>7</sup> G(5')ppp(5')G RNA Cap Structure Analog	10107172	Pass	

Assay Name/Specification	Lot # 10106604
Molecular Weight Determination (Mass Spectrometry) The molecular weight of m7G(5')ppp(5')A RNA Cap Structure Analog is between 787.5 and 789.5 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')A 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
Physical Purity (HPLC) m7G(5')ppp(5')A RNA Cap Structure Analog is ≥ 95% pure as determined by HPLC analysis.	Pass

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.



S1405L / Lot: 10106604 Page 1 of 2 Michael

Production Scientist

16 Apr 2021

Michael Tonello

Packaging Quality Control Inspector

16 Apr 2021