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## New England Biolabs Certificate of Analysis

Product Name: 3'-O-Me-m7G(5')ppp(5')G RNA Cap Structure Analog

Catalog Number: S1411L
Packaging Lot Number: 10115854
Expiration Date: 07/2024
Storage Temperature: -20°C

Storage Conditions: Supplied as a lyophilized Sodium salt

Specification Version: PS-S1411S/L v1.0

3'-O-Me-m7G(5')ppp(5')G RNA Cap Structure Analog Component List				
<b>NEB Part Number</b>	Component Description	Lot Number	Individual QC Result	
S1411SVIAL	3'-O-Me-m <sup>7</sup> G(5')ppp(5')G RNA Cap Structure Analog	10115850	Pass	

Assay Name/Specification	Lot # 10115854
Functional Testing (Incorporation using RNA Polymerase) A 20 μl reaction in RNA Polymerase Reaction Buffer in the presence of 4 mM NTPs +/- 3'-O-Me-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
Molecular Weight Determination (Mass Spectrometry) The molecular weight of 3'-O-Me-m7G(5')ppp(5')G RNA Cap Structure Analog is between 815.46 and 817.46 as determined by mass spectrometry analysis.	Pass
Physical Purity (HPLC) 3'-O-Me-m7G(5')ppp(5')G 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.



S1411L / Lot: 10115854 Page 1 of 2 John Buswell
Production Scientist

19 Jul 2021

Michael Tonello

Packaging Quality Control Inspector

19 Jul 2021