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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: 10140217
Expiration Date: 02/2025
Storage Temperature: -20°C

Storage Conditions: Supplied as dried sodium salt.

Specification Version: PS-S1411S/L v2.0

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	10140216	Pass	

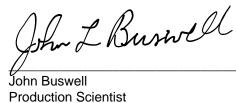
Assay Name/Specification	Lot # 10140217
Functional Testing (Incorporation using RNA Polymerase) A 20 μl reaction in RNA Polymerase Reaction Buffer in the presence of 4 mM NTPs +/- 3'-O-Me-m7G(5')ppp(5')G RNA Cap Structure Analog containing 2 μg of template DNA and 50 units of T7 RNA Polymerase incubated for 2 hours at 37°C results in the expected product as determined by polyacrylamide gel electrophoresis.	Pass
Physical Purity (HPLC) 3'-O-Me-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 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

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

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11 Feb 2022

Michael Tonello

Packaging Quality Control Inspector 11 Feb 2022

