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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: \$1411\$
Packaging Lot Number: 10130711
Expiration Date: 04/2024
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	10106616	Pass	

Assay Name/Specification	Lot # 10130711
Physical Purity (HPLC)	Pass
3'-O-Me-m7G(5')ppp(5')G RNA Cap Structure Analog is ≥ 95% pure as determined by HPLC analysis.	
Molecular Weight Determination (Mass Spectrometry)	Pass
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.	
Functional Testing (Incorporation using RNA Polymerase)	Pass
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.	

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.



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Production Scientist

18 Jan 2022

Michael Tonello

Packaging Quality Control Inspector

18 Jan 2022

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