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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: S1411S
Packaging Lot Number: 10065578
Expiration Date: 01/2023
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				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
S1411SVIAL	3'-O-Me-m ⁷ G(5')ppp(5')G RNA Cap Structure Analog	10062692	Pass	

Assay Name/Specification	Lot # 10065578
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.



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John Buswell
Production Scientist

10 Mar 2020

Michael Tonello

Packaging Quality Control Inspector

10 Mar 2020

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