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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:	10121079
Expiration Date:	08/2024
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			
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	10118136	Pass

Assay Name/Specification	Lot # 10121079
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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John L Buswell

John Buswell Production Scientist 02 Nov 2021

Josh Hersey Packaging Quality Control Inspector

02 Nov 2021

