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240 County Road Ipswich, MA 01938-2723 Tel 978-927-5054 Fax 978-921-1350 www.neb.com info@neb.com

## New England Biolabs Certificate of Analysis

Product Name:	3'-O-Me-m7G(5')ppp(5')G RNA Cap Structure Analog
Catalog Number:	S1411L
Lot Number:	10036020
Expiration Date:	01/2022
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 <sup>7</sup> G(5')ppp(5')G RNA Cap Structure Analog	10035031	Pass

Assay Name/Specification	Lot # 10036020
<b>Functional Testing (Incorporation using RNA Polymerase)</b> 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
<b>Molecular Weight Determination (Mass Spectrometry)</b> 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.





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John Buswell Production Scientist 07 Feb 2019

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Michael Tonello Packaging Quality Control Inspector 07 Feb 2019

