

## New England Biolabs Certificate of Analysis

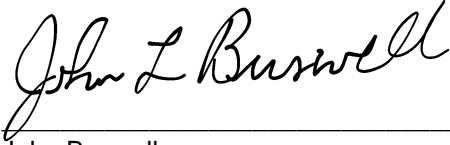
Product Name: 3'-O-Me-m<sup>7</sup>G(5')ppp(5')G RNA Cap Structure Analog  
 Catalog Number: S1411S  
 Packaging Lot Number: 10152268  
 Expiration Date: 03/2025  
 Storage Temperature: -20°C  
 Storage Conditions: Supplied as dried sodium salt.  
 Specification Version: PS-S1411S/L v2.0

3'-O-Me-m <sup>7</sup> G(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	10141402	Pass

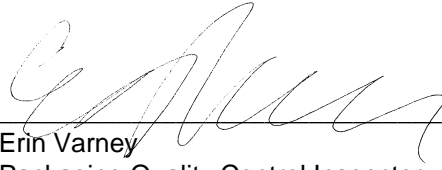
Assay Name/Specification	Lot # 10152268
<b>Molecular Weight Determination (Mass Spectrometry)</b> The molecular weight of 3'-O-Me-m <sup>7</sup> G(5')ppp(5')G RNA Cap Structure Analog is between 815.46 and 817.46 as determined by mass spectrometry analysis.	Pass
<b>Physical Purity (HPLC)</b> 3'-O-Me-m <sup>7</sup> G(5')ppp(5')G RNA Cap Structure Analog is ≥ 95% pure as determined by HPLC analysis.	Pass
<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-m <sup>7</sup> G(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

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

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John Buswell  
Production Scientist  
13 May 2022



Erin Varney  
Packaging Quality Control Inspector  
13 May 2022