

## New England Biolabs Certificate of Analysis

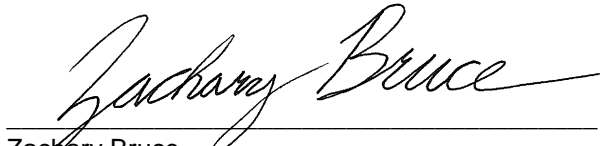
**Product Name:** 3'-O-Me-m<sup>7</sup>G(5')ppp(5')G RNA Cap Structure Analog  
**Catalog Number:** S1411L  
**Packaging Lot Number:** 10243674  
**Expiration Date:** 05/2027  
**Storage Temperature:** -20°C  
**Storage Conditions:** Supplied as dried sodium salt.  
**Specification Version:** PS-S1411S/L 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	10241680	Pass

Assay Name/Specification	Lot # 10243674
<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.	<b>Pass</b>
<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.	<b>Pass</b>
<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.	<b>Pass</b>

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](http://www.neb.com/trademarks) for additional information.

  
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15 May 2024

  
Josh Hersey  
Packaging Quality Control Inspector  
15 May 2024