

## New England Biolabs Certificate of Analysis

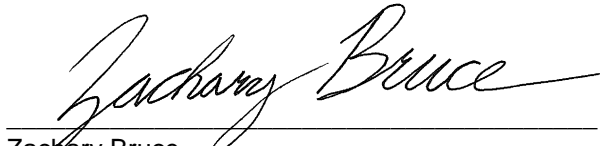
Product Name: *G(5')ppp(5')A RNA Cap Structure Analog*  
 Catalog Number: *S1406L*  
 Packaging Lot Number: *10197152*  
 Expiration Date: *10/2025*  
 Storage Temperature: *-20°C*  
 Storage Conditions: *Supplied as dried sodium salt.*  
 Specification Version: *PS-S1406S/L v2.0*

<b>G(5')ppp(5')A RNA Cap Structure Analog Component List</b>			
<b>NEB Part Number</b>	<b>Component Description</b>	<b>Lot Number</b>	<b>Individual QC Result</b>
S1406SVIAL	G(5')ppp(5')A RNA Cap Structure Analog	10163648	<b>Pass</b>

<b>Assay Name/Specification</b>	<b>Lot # 10197152</b>
<p><b>Functional Testing (Incorporation using RNA Polymerase)</b>            A 20 µl reaction in RNA Polymerase Reaction Buffer in the presence of 4 mM NTPs +/- G(5')ppp(5')A 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.</p>	<b>Pass</b>
<p><b>Molecular Weight Determination (Mass Spectrometry)</b>            The molecular weight of G(5')ppp(5')A RNA Cap Structure Analog is between 772.0 and 774.0 as determined by mass spectrometry analysis.</p>	<b>Pass</b>
<p><b>Physical Purity (HPLC)</b>            G(5')ppp(5')A RNA Cap Structure Analog is ≥ 95% pure as determined by HPLC analysis.</p>	<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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21 Jun 2023

  
Michael Tonello  
Packaging Quality Control Inspector  
21 Jun 2023