

## New England Biolabs Certificate of Analysis

Product Name: *G(5')ppp(5')A RNA Cap Structure Analog*  
 Catalog Number: *S1406L*  
 Packaging Lot Number: *10203705*  
 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	Pass

<b>Assay Name/Specification</b>	<b>Lot # 10203705</b>
<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.	Pass
<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.	Pass
<b>Physical Purity (HPLC)</b> G(5')ppp(5')A 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.

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.

*Zachary Bruce*

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05 Oct 2023

*Michael Tonello*

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05 Oct 2023