

## New England Biolabs Certificate of Analysis

Product Name: *G(5')ppp(5')A RNA Cap Structure Analog*  
 Catalog Number: *S1406S*  
 Packaging Lot Number: *10249637*  
 Expiration Date: *09/2026*  
 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	10204918	Pass

<b>Assay Name/Specification</b>	<b>Lot # 10249637</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.

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Zachary Bruce  
Production Scientist  
25 Jul 2024



Josh Hersey  
Packaging Quality Control Inspector  
25 Jul 2024