

## New England Biolabs Certificate of Analysis


Product Name: *m7G(5')ppp(5')G RNA Cap Structure Analog*  
 Catalog Number: *S1404S*  
 Packaging Lot Number: *10119068*  
 Expiration Date: *10/2024*  
 Storage Temperature: *-20°C*  
 Storage Conditions: *Supplied as a lyophilized Sodium salt*  
 Specification Version: *PS-S1404S/L v1.0*

m7G(5')ppp(5')G RNA Cap Structure Analog Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
S1404SVIAL	m7G(5')ppp(5')G RNA Cap Structure Analog	10119069	Pass

Assay Name/Specification	Lot # 10119068
<b>Molecular Weight Determination (Mass Spectrometry)</b> The molecular weight of m7G(5')ppp(5')G RNA Cap Structure Analog is between 802.4 and 804.4 as determined by mass spectrometry analysis.	Pass
<b>Physical Purity (HPLC)</b> m7G(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 +/- m7G(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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Michael Spfoviero  
Production Scientist  
13 Oct 2021



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Michael Tonello  
Packaging Quality Control Inspector  
13 Oct 2021