


New England Biolabs Certificate of Analysis

Product Name: G(5')ppp(5')A RNA Cap Structure Analog
 Catalog Number: S1406L
 Packaging Lot Number: 10059659
 Expiration Date: 12/2022
 Storage Temperature: -20°C
 Storage Conditions: Supplied as a lyophilized Sodium salt
 Specification Version: PS-S1406S/L v1.0

G(5')ppp(5')A RNA Cap Structure Analog Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
S1406SVIAL	G(5')ppp(5')A RNA Cap Structure Analog	10059660	Pass

Assay Name/Specification	Lot # 10059659
Physical Purity (HPLC) G(5')ppp(5')A RNA Cap Structure Analog is $\geq 95\%$ pure as determined by HPLC analysis.	Pass
Molecular Weight Determination (Mass Spectrometry) 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
Functional Testing (Incorporation using RNA Polymerase) A 20 μ l reaction in RNA Polymerase Reaction Buffer in the presence of 4 mM NTPs +/- G(5')ppp(5')A RNA Cap Structure Analog containing 2 μ g 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.


Michael Spfoviero
Production Scientist
10 Dec 2019


Josh Hersey
Packaging Quality Control Inspector
14 Feb 2020