

New England Biolabs Certificate of Analysis

Product Name: *G(5')ppp(5')A RNA Cap Structure Analog*
 Catalog Number: *S1406S*
 Lot Number: *10050854*
 Expiration Date: *07/2022*
 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	10050855	Pass

Assay Name/Specification	Lot # 10050854
Physical Purity (HPLC) G(5')ppp(5')A RNA Cap Structure Analog is $\geq 95\%$ pure as determined by HPLC 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
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

This product has been tested and shown to be in compliance with all specifications.

Nancy Considine

Nancy Considine
Production Scientist
21 Aug 2019

Michael Tonello

Michael Tonello
Packaging Quality Control Inspector
21 Aug 2019