

New England Biolabs Certificate of Analysis

Product Name: 3'-O-Me-m⁷G(5')ppp(5')G RNA Cap Structure Analog
 Catalog Number: S1411L
 Lot Number: 10038403
 Expiration Date: 03/2022
 Storage Temperature: -20°C
 Storage Conditions: Supplied as a lyophilized Sodium salt
 Specification Version: PS-S1411S/L v1.0

3'-O-Me-m ⁷ G(5')ppp(5')G RNA Cap Structure Analog Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
S1411SVIAL	3'-O-Me-m ⁷ G(5')ppp(5')G RNA Cap Structure Analog	10039132	Pass

Assay Name/Specification	Lot # 10038403
Physical Purity (HPLC) 3'-O-Me-m ⁷ G(5')ppp(5')G RNA Cap Structure Analog is ≥ 95% pure as determined by HPLC analysis.	Pass
Functional Testing (Incorporation using RNA Polymerase) A 20 µl reaction in RNA Polymerase Reaction Buffer in the presence of 4 mM NTPs +/- 3'-O-Me-m ⁷ G(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
Molecular Weight Determination (Mass Spectrometry) The molecular weight of 3'-O-Me-m ⁷ G(5')ppp(5')G RNA Cap Structure Analog is between 815.46 and 817.46 as determined by mass spectrometry analysis.	Pass

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

John L Buswell

John Buswell
Production Scientist
11 Mar 2019

Michael Tonello

Michael Tonello
Packaging Quality Control Inspector
11 Mar 2019