

New England Biolabs Certificate of Analysis

Product Name: 3'-O-Me-m⁷G(5')ppp(5')G RNA Cap Structure Analog
 Catalog Number: S1411L
 Unit Definition:
 Lot Number: 10020166
 Expiration Date: 08/2021
 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	10016931	Pass

Assay Name/Specification	Lot # 10020166
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
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

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

John L Buswell

John Buswell
Production Scientist
31 Aug 2018

Michael Tonello

Michael Tonello
Packaging Quality Control Inspector
31 Aug 2018