

New England Biolabs Certificate of Analysis

Product Name: 3'-O-Me-m⁷G(5')ppp(5')G RNA Cap Structure Analog
 Catalog Number: S1411L
 Packaging Lot Number: 10099659
 Expiration Date: 03/2024
 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 | 10099660 | Pass |

| Assay Name/Specification | Lot # 10099659 |
|--|----------------|
| 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 |
| 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 |
| 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 |

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

One or more products referenced in this document may be covered by a 3rd-party trademark. Please visit www.neb.com/trademarks for additional information.

John L Buswell

John Buswell
Production Scientist
24 Mar 2021

Michael Tonello

Michael Tonello
Packaging Quality Control Inspector
24 Mar 2021