

New England Biolabs Certificate of Analysis

Product Name: *m7G(5')ppp(5')G RNA Cap Structure Analog*
 Catalog Number: *S1404L*
 Packaging Lot Number: *10212893*
 Expiration Date: *02/2026*
 Storage Temperature: *-20°C*
 Storage Conditions: *Supplied as dried sodium salt.*
 Specification Version: *PS-S1404S/L v2.0*

| m7G(5')ppp(5')G RNA Cap Structure Analog Component List | | | |
|---|--|------------|----------------------|
| NEB Part Number | Component Description | Lot Number | Individual QC Result |
| S1404SVIAL | m7G(5')ppp(5')G RNA Cap Structure Analog | 10178421 | Pass |

| Assay Name/Specification | Lot # 10212893 |
|--|----------------|
| <p>Functional Testing (Incorporation using RNA Polymerase) A 20 µl reaction in RNA Polymerase Reaction Buffer in the presence of 4 mM NTPs +/- m7G(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.</p> | Pass |
| <p>Molecular Weight Determination (Mass Spectrometry) The molecular weight of m7G(5')ppp(5')G RNA Cap Structure Analog is between 802.4 and 804.4 as determined by mass spectrometry analysis.</p> | Pass |
| <p>Physical Purity (HPLC) m7G(5')ppp(5')G RNA Cap Structure Analog is ≥ 95% pure as determined by HPLC analysis.</p> | 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.

Zachary Bruce

Zachary Bruce
Production Scientist
30 Oct 2023

Michael Tonello

Michael Tonello
Packaging Quality Control Inspector
30 Oct 2023