

New England Biolabs Certificate of Analysis

Product Name: *G(5')ppp(5')A RNA Cap Structure Analog*
 Catalog Number: *S1406S*
 Packaging Lot Number: *10233796*
 Expiration Date: *09/2026*
 Storage Temperature: *-20°C*
 Storage Conditions: *Supplied as dried sodium salt.*
 Specification Version: *PS-S1406S/L v2.0*

| 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 | 10204918 | Pass |

| Assay Name/Specification | Lot # 10233796 |
|---|----------------|
| Functional Testing (Incorporation using RNA Polymerase) A 20 µl reaction in RNA Polymerase Reaction Buffer in the presence of 4 mM NTPs +/- G(5')ppp(5')A 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 G(5')ppp(5')A RNA Cap Structure Analog is between 772.0 and 774.0 as determined by mass spectrometry analysis. | Pass |
| Physical Purity (HPLC) G(5')ppp(5')A 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.

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
Production Scientist
08 Mar 2024



Michael Tonello
Packaging Quality Control Inspector
08 Mar 2024