

240 County Road Ipswich, MA 01938-2723 Tel 978-927-5054 Fax 978-921-1350 www.neb.com info@neb.com

New England Biolabs Certificate of Analysis

Product Name: m7G(5')ppp(5')G RNA Cap Structure Analog

Catalog Number: \$1404L
Packaging Lot Number: 10222709
Expiration Date: 11/2026
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	m ⁷ G(5')ppp(5')G RNA Cap Structure Analog	10212894	Pass	

Assay Name/Specification	Lot # 10222709
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.	Pass
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.	Pass
Physical Purity (HPLC) m7G(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.

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.



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Zackary Bruce Production Scientist 29 Jan 2024

Michael Tonello

Packaging Quality Control Inspector

29 Jan 2024