

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: \$1404\$
Packaging Lot Number: 10052564
Expiration Date: 05/2022
Storage Temperature: -20°C

Storage Conditions: Supplied as a lyophilized Sodium salt

Specification Version: PS-S1404S/L v1.0

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	10042649	Pass

Assay Name/Specification	Lot # 10052564
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.



S1404S / Lot: 10052564

Page 1 of 2

Michael Sproviero
Production Scientist

21 Nov 2019

Michael Tonello

Packaging Quality Control Inspector

21 Nov 2019

S1404S / Lot: 10052564

Page 2 of 2