

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')A RNA Cap Structure Analog

Catalog Number: \$1405\$
Packaging Lot Number: 10064796
Expiration Date: 01/2023
Storage Temperature: -20°C

Storage Conditions: Supplied as a lyophilized Sodium salt

Specification Version: PS-S1405S/L v1.0

m7G(5')ppp(5')A RNA Cap Structure Analog Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
S1405SVIAL	m ⁷ G(5')ppp(5')G RNA Cap Structure Analog	10058022	Pass	

Assay Name/Specification	Lot # 10064796
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')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 m7G(5')ppp(5')A RNA Cap Structure Analog is between 787.5 and 789.5 as determined by mass spectrometry analysis.	Pass
Physical Purity (HPLC) m7G(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.



S1405S / Lot: 10064796 Page 1 of 2 Michael Sproviero

Production Scientist

17 Mar 2020

Michael Tonello

Packaging Quality Control Inspector

17 Mar 2020

S1405S / Lot: 10064796

Page 2 of 2