

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: 10076471
Expiration Date: 07/2023
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	10076472	Pass	

Assay Name/Specification	Lot # 10076471
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.



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Production Scientist

23 Jul 2020

Josh Hersey Packaging Quality Control Inspector

23 Jul 2020

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