NEW ENGLAND BioLabs Inc.
be INSPIRED drive DISCOVERY stay GENUINE
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:	*3'-O-Me-m7G(5')ppp(5')G RNA Cap Structure Analog*
Catalog Number:	*S1411L*
Packaging Lot Number:	*10097159*
Expiration Date:	*11/2023*
Storage Temperature:	*-20°C*
Storage Conditions:	*Supplied as a lyophilized Sodium salt*
Specification Version:	*PS-S1411S/L v1.0*

3'-O-Me-m7G(5')ppp(5')G RNA Cap Structure Analog Component List			
NEB Part Number	**Component Description**	**Lot Number**	**Individual QC Result**
S1411SVIAL	3'-O-Me-m^{7}G(5')ppp(5')G RNA Cap Structure Analog	10087069	**Pass**

Assay Name/Specification	**Lot # 10097159**
Functional Testing (Incorporation using RNA Polymerase) A 20 µl reaction in RNA Polymerase Reaction Buffer in the presence of 4 mM NTPs +/- 3'-O-Me-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 3'-O-Me-m7G(5')ppp(5')G RNA Cap Structure Analog is between 815.46 and 817.46 as determined by mass spectrometry analysis.	**Pass**
Physical Purity (HPLC) 3'-O-Me-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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John Buswell
Production Scientist
01 Feb 2021

Michael Tonello
Packaging Quality Control Inspector
01 Feb 2021