

New England Biolabs Product Specification

Product Name: $m^7G(5')ppp(5')A$ RNA Cap Structure Analog
Catalog #: S1405S/L
Concentration: 1 μ mol
Shelf Life: 36 months
Storage Temp: -20°C
Storage Conditions: Supplied as dried sodium salt.
Specification Version: PS-S1405S/L v2.0
Effective Date: 02 Nov 2021

Assay Name/Specification (minimum release criteria)

Functional Testing (Incorporation using RNA Polymerase) - A 20 μ l reaction in RNA Polymerase Reaction Buffer in the presence of 4 mM NTPs +/- $m^7G(5')ppp(5')A$ RNA Cap Structure Analog containing 2 μ g 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.

Molecular Weight Determination (Mass Spectrometry) - The molecular weight of $m^7G(5')ppp(5')A$ RNA Cap Structure Analog is between 787.5 and 789.5 as determined by mass spectrometry analysis.

Physical Purity (HPLC) - $m^7G(5')ppp(5')A$ RNA Cap Structure Analog is \geq 95% pure as determined by HPLC analysis.

One or more products referenced in this document may be covered by a 3rd-party trademark.
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Date 02 Nov 2021

Derek Robinson
Director, Quality Control

