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New England Biolabs Certificate of Analysis

Product Name: mRNA Cap 2´-O-Methyltransferase

Catalog #: M0366S

Concentration: 50,000 units/ml

 Lot #:
 0101601

 Assay Date:
 01/2016

 Expiration Date:
 01/2018

 Storage Temp:
 -20°C

Storage Conditions: 100 mM NaCl, 20 mM Tris-HCl (pH 8.0), 1 mM DTT, 0.1 mM EDTA, 50 % Glycerol, 0.1 % Triton®X-100

Specification Version: PS-M0366S v1.0 Effective Date: 22 May 2015

Assay Name/Specification (minimum release criteria)	Lot #0101601
Endonuclease Activity (Nicking) - A 50 μl reaction in Capping Buffer containing 1 μg of supercoiled PhiX174 DNA and a minimum of 50 units of mRNA Cap 2'-O-Methyltransferase incubated for 4 hours at 37°C results in <10% conversion to the nicked form as determined by agarose gel electrophoresis.	Pass
Exonuclease Activity (Radioactivity Release) - A 50 μl reaction in Capping Buffer containing 1 μg of a mixture of single and double-stranded [³ H] <i>E. coli</i> DNA and a minimum of 50 units of mRNA Cap 2'-O-Methyltransferase incubated for 4 hours at 37°C releases <0.1% of the total radioactivity.	Pass
Protein Purity Assay (SDS-PAGE) - mRNA Cap 2'- <i>O</i> -Methyltransferase is ≥ 99% pure as determined by SDS-PAGE analysis using Coomassie Blue detection.	Pass
RNase Activity (Extended Digestion) - A 10 μ l reaction in NEBuffer 4 containing 40 ng of a 300 base single-stranded RNA and a minimum of 50 units of mRNA Cap 2'-O-Methyltransferase is incubated at 37°C. After incubation for 4 hours, >90% of the substrate RNA remains intact as determined by gel electrophoresis using fluorescent detection.	Pass

Authorized by Derek Robinson 22 May 2015

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Registered
Quality





Inspected by Bhairavi Jani 05 Apr 2016