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New England Biolabs Certificate of Analysis

Product Name:	Vaccinia Capping System
Catalog #:	M2080S
Concentration:	10,000 units/ml
Unit Definition:	One unit of Vaccinia Capping Enzyme is defined as the amount of enzyme required to incorporate 10 pmol of $(\alpha^{32}P)$ GTP into an 80 nt transcript in 1 hour at 37°C.
<i>Lot</i> #:	0471708
Assay Date:	08/2017
Expiration Date:	8/2019
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-M2080S v1.0
Effective Date:	07 Sep 2016

Assay Name/Specification (minimum release criteria) Endonuclease Activity (Nicking) - A 50 μl reaction in Capping Buffer containing 1 μg of supercoiled PhiX174 DNA and a minimum of 10 units of Vaccinia Capping System incubated for 4 hours at 37°C results in <10% conversion to the nicked form as determined by agarose gel electrophoresis.	
Protein Purity Assay (SDS-PAGE) - Vaccinia Capping System is ≥ 95% pure as determined by SDS-PAGE analysis using Coomassie Blue detection.	
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 10 units of Vaccinia Capping System 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.	

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Authorized by Derek Robinson 07 Sep 2016



Inspected by Bhairavi Jani 02 Aug 2017