

Certificate of analysis

Product Name/Description: Vaccinia Capping Enzyme

Cat. #: 2460A

Lot #: Specified on product label

Storage Conditions: -20 degrees C

Expiration Date: Specified on product label or package

Package Size: 500 U

Package Contents: 1. Vaccinia Capping Enzyme 10 U/µl 500 U

2. 10X Capping Buffer $100~\mu I$ 3. S-adenosylmethionine (SAM) $32~mM \qquad 100~\mu I$ 4. GTP $10~mM \qquad 50~\mu I$

Source: Escherichia coli carrying plasmids containing the genes for vaccinia virus capping enzyme

Unit Definition: One unit is defined as the amount of enzyme that incorporates 10 pmol of $[\alpha-32P]$ GTP into an RNA transcript in

1 hour at 37°C.

Quality Control Data:

Nuclease contamination tests:

Nuclease activities were not obviously detected in any of the following tests by agarose-gel electrophoresis:

- 1) Incubating 1 μg of λ DNA-Hind III digest with 10 units of the enzyme for 4 hours at 37°C.
- 2) Incubating 1 µg of supercoiled pBR322 DNA with 10 units of the enzyme for 4 hours at 37°C.
- 3) Incubating 1 μg of 16S, 23S rRNA with 10 units of the enzyme for 4 hours at 37°C.

Protein purity:

The heterodimer enzyme was detected as main bands of approximately 98 kDa and 33 kDa proteins in SDS-PAGE analysis.

Functional test of S-adenosylmethionine (SAM):

No obvious digestion or difference (comparing to previous lot) of the 1 μg of λ DNA that had been pretreated with 160 μM of SAM and 2 units of CpG Methylase was observed after incubation with 10 units of Acc II restriction enzyme in agarose-gel electrophoresis.

It is certified that this product meets the above specifications, as reviewed and approved by the Quality Department of Takara Bio Inc.



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