

Certificate of analysis

Product Name/Description: Faustovirus Capping Enzyme (S17)
Cat. #: 2480A
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. Faustovirus Capping Enzyme (S17)	25 U/μl	500 U
	2. 10X Capping Buffer 2		100 μl
	3. S-adenosylmethionine (SAM)	32 mM	100 μl
	4. GTP	10 mM	50 μl

Source: Escherichia coli carrying a plasmid containing the gene for Faustovirus capping enzyme (S17)

Unit Definition: One unit is defined as the amount of enzyme that converts 5 pmol of a 100 nt transcript to Cap-0 RNA in 30 minutes at 37°C.

Quality Control Data:

Nuclease contamination tests:

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

- 1) Incubating 1 μg of λ DNA-Hind III digest with 25 units of the enzyme for 4 hours at 37°C.
- 2) Incubating 1 μg of 16S, 23S rRNA with 25 units of the enzyme for 4 hours at 37°C.

Protein purity:

The enzyme was detected as a main band of approximately 100 kDa protein 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.

Notice To Purchaser:

Please refer to the website.

Product Documents, Patent Markings, Trademarks, & Safety Information:

Refer to website for availability to download or contact your local office:

www.takara-bio.co.jp (Japanese)

www.takarabio.com (English)

Licence Statements:

Please visit our website and click the "license" button on the product's web page.

©2023 Takara Bio Inc. All Rights Reserved.

All trademarks are the property of Takara Bio Inc. or its affiliate(s) in the U.S. and/or other countries or their respective owners. Certain trademarks may not be registered in all jurisdictions.