Certificate of analysis

Product Name/Description:	mRNA Cap 2'-O-Methyltransferase		
Cat. #:	2470A		
Lot #:	Specified on product label		
Storage Conditions:	-20 degrees C		
Expiration Date:	Specified on product label or package		
Package Size:	2500 U		
Package Contents:	1. mRNA Cap 2'-O-Methyltransferase	50 U/µl	2500 U
	2. 10X Capping Buffer		100 µ1
	3. S-adenosylmethionine (SAM)	32 mM	100 µ1
Source:	Escherichia coli carrying a plasmid containing the gene for vaccinia virus mRNA cap 2'-O-methyltransferase		
Unit Definition:	One unit is defined as the amount of enzyme that methylates 10 pmol of Cap-0 RNA 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 μ g of λ DNA-Hind III digest with 50 units of the enzyme for 4 hours at 37°C. 2) Incubating 1 μ g of supercoiled pBR322 DNA with 50 units of the enzyme for 4 hours at 37°C. 3) Incubating 1 μ g of 16S, 23S rRNA with 50 units of the enzyme for 4 hours at 37°C. Protein purity: The enzyme was detected as a main band of approximately 40 kDa protein in SDS-PAGE analysis. Functional test of S-adenosylmethionine (SAM): No obvious digestion or difference (comparing to previous lot) of the 1 μ g of λ DNA that had been pretreated with 160 μ M 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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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)

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