

Certificate of analysis

Product Name/Description: Terminal Deoxynucleotidyl Transferase

Cat. #: 2230A

Lot #: Specified on product label

Storage Conditions: -20 degrees C

Expiration Date: Specified on product label or package

Package Size: 300 U

Package Contents:	1. Terminal Deoxynucleotidyl Transferase	14 U/μl	300 U
	2. 5X Terminal Deoxynucleotidyl Transferase Buffer		1 ml
	3. 0.1% BSA		1 ml

Source: E. coli carrying the plasmid which encodes the gene of terminal deoxynucleotidyl transferase

Unit Definition: One unit of the enzyme is defined as the amount that incorporates 1 nmol of [3H]dTTP into acid-insoluble product in 1 hour at 37°C at pH 7.2, with calf thymus DNA that is treated with DNase and heat-denatured (activated calf thymus DNA) as initiator.

Quality Control Data:

Nuclease contamination test:

Nuclease activity was not detected in this product by agarose gel electrophoresis following the each of the reactions described below.

- 1) Incubating 1 μg of λDNA-Hind III digests with 15 units of this enzyme for 16 hours at 37°C.
- 2) Incubating 1 μg of supercoiled pBR322 DNA with 15 units of this enzyme for 16 hours at 37°C.
- 3) Incubating 1 μg of 16S, 23S rRNA with 15 units of this enzyme for 5 hours at 37°C.

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)

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