

# Certificate of analysis

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**Product Name/Description:** Exonuclease I

**Cat. #:** 2650A

**Lot #:** Specified on product label

**Storage Conditions:** -20 degrees C

**Expiration Date:** Specified on product label or package

**Package Size:** 750 U

<b>Package Contents:</b>	1. Exonuclease I	5 U/ $\mu$ l	750 U
	2. 10X Exonuclease I Buffer		1 ml

**Source:** Escherichia coli JM109 carrying plasmids encoding the gene for E.coli exonuclease I

**Unit Definition:** One unit of the enzyme is defined as the amount that produces 10 nmol of acid-soluble products in 30 minutes at 37°C and pH 9.5, with heat-denatured calf thymus DNA as the substrate.

**Quality Control Data:**

Nuclease contamination test:

Nuclease activity was not detected by agarose gel electrophoresis following the reactions below:

- 1) Incubating 1  $\mu$ g of  $\lambda$ -Hind III digest with 25 units of this product at 37°C for 16 hours at pH 7.5.
- 2) Incubating 1  $\mu$ g of supercoiled pBR322 with 25 units of this product at 37°C for 16 hours at pH 7.5.
- 3) Incubating 1  $\mu$ g of single-strand M13 mp18 DNA with 25 units of this product at 37°C for 16 hours at pH 7.5.
- 4) Incubating 1  $\mu$ g of 16S, 23S rRNA with 25 units of this product at 37°C for 16 hours at pH 7.5.

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](http://www.takara-bio.co.jp) (Japanese)

[www.takarabio.com](http://www.takarabio.com) (English)

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