

Certificate of analysis

Product Name/Description:	T4 DNA Ligase		
Cat. #:	2011A		
Lot #:	Specified on product label		
Storage Conditions:	-20 degrees C		
Expiration Date:	Specified on product label or package		
Package Size:	25000 U		
Package Contents:	1. T4 DNA Ligase	350 U/ μ l	25 kU
	2. 10X T4 DNA Ligase Buffer		1 ml
Source:	Escherichia coli carrying the plasmid that encodes the gene of T4 DNA ligase		
Unit Definition:	One unit of the enzyme is defined as the amount that ligates more than 90% of 6 μ g of λ -Hind III digest in a 20 μ l mixture in 30 minutes at 16°C. One unit defined as described above corresponds to 0.008 Weiss unit measured by using the ATP-PPi exchange reaction in 66 mM Tris-HCl (pH 7.6) that contains 6.6 mM MgCl ₂ , 10 mM DTT, 66 μ M ATP, and 3.3 μ M [32P]-Na ₄ P ₂ O ₇ .		

Quality Control Data:

Nuclease contamination test:

Nuclease activity in this product was not detected by agarose gel electrophoresis following each reaction below:

- 1) Incubating 1 μ g of λ -Hind III digest with 2,000 units of this product for 16 hours at 37°C.
- 2) Incubating 1 μ g of supercoiled pBR322 DNA with 2,000 units of this product for 16 hours at 37°C.
- 3) Incubating 1 μ g of 16S, 23S rRNA with 2,000 units of this product for 16 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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