

Certificate of analysis

Product Name/Description:	T4 RNA Ligase		
Cat. #:	2050A		
Lot #:	Specified on product label		
Storage Conditions:	-20 degrees C		
Expiration Date:	Specified on product label or package		
Package Size:	1000 U		
Package Contents:	1. T4 RNA Ligase	40 U/ μ l	1000 U
	2. 10X T4 RNA Ligase Buffer		1 ml
	3. 0.1% BSA		1 ml

Source: Escherichia coli carrying the plasmid containing T4 RNA ligase gene

Unit Definition: One unit of the enzyme is defined as the amount that incorporates 1 pmol of [5'-32P] pCp into acid-insoluble fraction in 10 minutes at 5°C, with oligo (A)_n as the substrate. (The above mentioned reaction is a labeling reaction of 3' terminus of RNA.)

Quality Control Data:

1. Non-specific nuclease activity was not detected in this product by agarose gel electrophoresis following each of the reactions below.
 - 1) Incubating 1 μ g of λ DNA-Hind III digest with 100 units of this enzyme for 16 hours at 37°C.
 - 2) Incubating 1 μ g of 16S and 23S rRNA with 100 units of this enzyme for 16 hours at 37°C.
2. After incubation of 6 μ g of either λ DNA-Hind III digest or λ DNA-Pst I digest with 20 units of this enzyme for 16 hours at 37°C, more than 90% of the DNA fragments could be ligated by T4 DNA Ligase, and 100% of the ligated DNA could be recut by Hind III or Pst I, respectively.
3. This enzyme was shown to be more than 90% homogeneous by SDS-polyacrylamide 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)

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