

# Certificate of analysis

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**Product Name/Description:** Apa I  
**Cat. #:** 1005A  
**Lot #:** Specified on product label  
**Storage Conditions:** -20 degrees C  
**Expiration Date:** Specified on product label or package

**Package Size:** 10000 U

<b>Package Contents:</b>	1. Apa I	15 U/ $\mu$ l	10 KU
	2. 10X L Buffer		1 ml
	3. 10X Loading Buffer		1 ml

**Source:** Acetobacter pasteurianus sub. Pasteurianus

**Quality Control Data:**

Overdigestion test:

Nonspecific nuclease activity was not detected after incubating 1  $\mu$ g of  $\lambda$ DNA with 20 units of this enzyme in 50  $\mu$ l of the supplied buffer overnight at 37°C, as assessed by agarose gel electrophoresis.

Ligation-Recutting test:

After 10-fold overdigestion with this enzyme, the DNA fragments could be ligated with T4 DNA ligase and recut with this enzyme.

Ligation: >95% , Recutting: 100%

Labeled oligonucleotide assay (LOA) test:

The degradation rate of oligonucleotides was less than 10% during incubation with 6 U of this enzyme for 1 hour in 10  $\mu$ l of the supplied buffer.

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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