

# Certificate of analysis

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<b>Product Name/Description:</b>	Eco52 I (Xma III)		
<b>Cat. #:</b>	1039A		
<b>Lot #:</b>	Specified on product label		
<b>Storage Conditions:</b>	-20 degrees C		
<b>Expiration Date:</b>	Specified on product label or package		
<b>Package Size:</b>	200 U		
<b>Package Contents:</b>	1. Eco52 I	10 U/μl	200 U
	2. 10X Eco52 I Buffer		1 ml
	3. 0.1% BSA		1 ml
	4. 10X Loading Buffer		1 ml

**Source:** Escherichia coli RFL 52

## Quality Control Data:

### Overdigestion test:

Nonspecific nuclease activity was not detected after incubating 1 μg of λ-BamH I digest with 10 units of this enzyme in 50 μl 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: 90% , Recutting: 100%

### Genomic DNA Digest:

Staphylococcus aureus chromosomal DNA (0.5 μg) embedded in a 0.5% agarose gel block was digested with 50 units of this enzyme in 100 μl of the supplied buffer overnight at 37°C. The expected profile was confirmed by pulsed-field gel electrophoresis.

### 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 μl 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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