

Certificate of analysis

Product Name/Description:	Sac II		
Cat. #:	1079A		
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. Sac II	15 U/μl	1000 U
	2. 10X T Buffer		1 ml
	3. 0.1% BSA		1 ml
	4. 10X Loading Buffer		1 ml

Source: Streptomyces achromogenes

Quality Control Data:

Overdigestion test:

Nonspecific nuclease activity was not detected after incubating 1 μg of pASf2-Xba I digest with 20 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: 95%

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 (Japanese)
www.takarabio.com (English)

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