

# Certificate of analysis

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<b>Product Name/Description:</b>	Nae I		
<b>Cat. #:</b>	1155A		
<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>	500 U		
<b>Package Contents:</b>	1. Nae I	10 U/ $\mu$ l	500 U
	2. 10X L Buffer		1 ml
	3. 10X Loading Buffer		1 ml
<b>Source:</b>	Nocardia aerocolonigenes		

**Quality Control Data:****Overdigestion test:**

Nonspecific nuclease activity was not detected after incubating 1  $\mu$ g of pBR322 Pvu II digest 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: 90% , Recutting: >95%

**Genomic DNA Digest:**

Staphylococcus aureus chromosomal DNA (0.5  $\mu$ g) embedded in a 0.5% agarose gel block was digested with 100 units of this enzyme in 100  $\mu$ l 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  $\mu$ l of the supplied buffer.

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