

Restriction  
Endonuclease



## BstV2 I (BbsI BpiI)

Recognition  
Sequence:

GAAGAC(N)<sub>2</sub>↓  
CTTCTG(N)<sub>6</sub>↑

L

**E298**

1,000 units  
5,000 u/ml

Lot: see label

Exp: see label

Store at **-20C**

SE-Buffers	B	G	O	W	Y	ROSE
%Activity	75-100	75-100	25-50	25-50	100	70

55°C

65°C

Y

λ

BSA

For more details  
scan the code



Ph/F+7(383)333-6853  
info@sibenzyme.com  
www.sibenzyme.com

## CERTIFICATE OF ANALYSIS

Source: *Bacillus stearothermophilus* V2.

Supplied in:

10 mM Tris-HCl (pH 7.5), 50 mM KCl, 0.1 mM EDTA,  
7 mM 2-mercaptoethanol, 200 µg/ml BSA, 50%  
glycerol.

Reaction Conditions:

1X SE-Buffer Y, BSA (100 µg/ml). Incubate at 55 °C.

1X SE-Buffer Y (pH 7.9 @ 25 °C)

33 mM Tris-Ac      66 mM KAc  
10 mM Mg(Ac)<sub>2</sub>      1 mM DTT

Heat Inactivation:

Enzyme is inactivated by incubation at 65 °C for 20  
minutes.

Unit Definition: One unit is defined as the amount of  
enzyme required to digest 1 µg of Lambda DNA in 1  
hour at 55 °C in a total reaction volume of 50 µl.  
To obtain 100% activity, BSA should be added to the  
1x reaction mix to a final concentration of 100 µg/ml.

Quality Control Assays

Ligation: After 5-fold overdigestion with BstV2 I, more  
than 90% of the DNA fragments can be ligated and recut.

16-Hour Incubation: A 50 µl reaction containing 1 µg of  
DNA and 5 Units of enzyme incubated for 16 hours  
resulted in the same pattern of DNA bands as a reaction  
incubated for 1 hour.

Do not use BSA for long incubation.

High enzyme concentration may result in star activity.

Oligonucleotide Assay: No detectable degradation of a  
single-stranded and double-stranded oligonucleotide  
was observed after incubation with 5 units of restriction  
endonuclease for 3 hours.

Enzyme Properties:

When using a buffer other than the optimal (Supplied)  
SE-Buffer, it may be necessary to add more enzymes  
to achieve complete digestion.

Reagents Supplied with Enzyme:

10X SE Buffer Y, BSA (10 mg/ml).