

Restriction  
Endonuclease



# BspI720 I

Recognition  
Sequence:

GC↓TNAGC  
CGANT↑CG

XS

**E185m**  
200 units  
10,000 u/ml

Lot:  
Exp:  
**Store at -20°C**

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

37°C

80°C

G

λ

For more details  
scan the code



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## CERTIFICATE OF ANALYSIS

Source: *Bacillus species 1720.*

Supplied in:

10 mM Tris-HCl (pH 7.5), 250 mM NaCl, 0.1 mM EDTA,  
7 mM 2-mercaptoethanol, 50% glycerol.

Reaction Conditions:

1x SE-Buffer G. Incubate at 37° C.

1X SE-Buffer G (pH 7.6 @ 25° C):

10 mM Tris-HCl    50 mM NaCl  
10 mM MgCl<sub>2</sub>    1 mM DTT

Heat Inactivation:

Enzyme is inactivated by incubation at 80°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 37° C in a total reaction volume of 50 µl.

Quality Control Assays

Ligation: After 10-fold overdigestion with BspI720 I, about 80% of the DNA fragments can be ligated with T4 DNA Ligase and 95% of these can be recut.

16-Hour Incubation: A 50 µl reaction containing 1 µg of DNA and 10 Units of enzyme incubated for 16 hours resulted in the same pattern of DNA bands as a reaction incubated for 1 hour.

Oligonucleotide Assay: No detectable degradation of a single-stranded and double-stranded oligonucleotide was observed after incubation with 10 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 G.