

Restriction
Endonuclease



AspA2 I

Recognition
Sequence:

C↓CTAGG
GGATC↑C

XS

E245m
100 units
10,000 u/ml

Lot:
Exp:
Store at -20°C

SE-Buffers	B	G	O	W	Y	ROSE
%Activity	10-25	50-75	75-100	100	75-100	10

37°C

80°C

W

λ/HindIII

BSA

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CERTIFICATE OF ANALYSIS

Source: *Arthrobacter species A2.*

Supplied in:

10 mM Tris-HCl (pH 7.5), 100 mM NaCl, 0.1 mM EDTA,
7 mM 2-mercaptoethanol, 100 µg/ml BSA, 50%
glycerol.

Reaction Conditions:

1x SE-Buffer W, BSA (100 µg/ml). Incubate at 37° C.

1X SE-Buffer W (pH 8.5 @ 25° C):

10 mM Tris-HCl 100 mM NaCl
10 mM MgCl₂ 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 λ DNA/HindIII
in 1 hour at 37° 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 10-fold overdigestion with AspA2 I, >
90% of the DNA fragments can be ligated with T4 DNA
Ligase and recut.

16-Hour Incubation: A 50 µl reaction containing 1 µg of
DNA and 20 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.

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 W, BSA (10 mg/ml).