Restriction Endonuclease

SibEnzyme®

# PspOM I

Recognition Sequence:

G↓GGCCC
CCCGG↑G

S

**E215**

1,500 units

10,000 u/ml

Lot:

Exp:

Store at -20C

| SE-Buffers | B | G | O | W | Y | ROSE |
|---|---|---|---|---|---|---|
| %Activity | 75-100 | 10-25 | 0-10 | 0-10 | 100 | 25 |

37°C | 65°C | Y | λ/BamH I | RR

For more details scen the code

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## CERTIFICATE OF ANALYSIS

Source: *An E.coli strain that carries the cloned PspOM I gene from Pseudomonas species OM2164.*

Supplied in:
10 mM Tris-HCl (pH 7.5), 50 mM NaCl, 0.1 mM EDTA, 1 mM DTT, 200 µg/ml BSA, 50% glycerol.

Reaction Conditions:
1X SE-Buffer Y. Incubate at37° C.

1X SE-Buffer Y (pH 7.9 @ 25° C):
33 mM Tris-Ac 66 mM KAc
10 mM MgAc 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/ BamHI in 1 hour at37° C in a total reaction volume of 50 µl.

Quality Control Assays
Ligation:After 10-fold overdigestion with PspOM I, more than 95% of the DNA fragments can be ligated 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.

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 Y.

Note:
The minimum number of units that resulted in complete digestion of 1 µg of substrate DNA in 16 hours is 0.13.