#### Restriction Endonuclease

# PspOM I

Recognition	G↓GGCCC		
Bequence:	CCCGG↑G		
S E215	Lot:		
1,500 units	Exp:		
10,000 u/ml	Store at -20		

SE-Buffers	В	G	0	W	Y	ROS
%Activity	75-100	10-25	0-10	0-10	100	25

### Lot: Exp:

SibEnzyme®

Store at -20C

RR

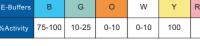
Ph/F+7(383)333-6853

info@sibenzyme.com

www.sibenzvme.com

For more details

scen the code



λ/BamHI

# **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 at 37° C.

1X SE-Buffer Y (pH 7.9 @ 25° C): 33 mM Tris-Ac 66 mM KAc 1 mM DTT 10 mM MqAc

### 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 at 37°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.