

PspOM I (Apa I*)



Product No. : RE1318
Quantity : 800u



Lot :
Expiry Date :
Concentration : 10u/μl
Supplied with : 1ml of 10X Buffer V1
1ml of 10X Buffer UB
0.5ml Diluent Viva Buffer A

(BSA included in all Reaction Buffer)

Store at -20°C



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Reaction Conditions:

Buffer V1,

10mM Tris-HCl (pH 7.5 at 30°C), 10mM MgCl₂,
and 100μg/ml BSA.

Incubate at 37°C.

Dilution: Viva Buffer A

10mM Tris-HCl (pH 7.4 at 25°C), 50mM KCl, 0.1mM EDTA,
1mM DTT, 200μg/ml BSA and 50% glycerol.

Thermal Inactivation: 65°C for 20 minutes

Storage Buffer:

10mM Tris-HCl (pH 7.5), 100mM KCl, 0.1mM EDTA,
7mM 2-mercaptoethanol, 200μg/ml BSA and 50% glycerol.

Unit Definition:

1u is defined as the amount of enzyme that is required to digest
1μg of DNA in 1 hour at 37°C in 50μl of assay buffer.

Quality Control Assays:

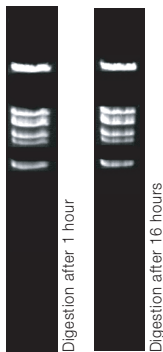
Ligation/ Recutting Assay:

After 10-fold overdigestion with *PspOM I*, 95% of the
DNA fragments can be ligated and recut.

λ DNA
(*BamH I* Digest)
0.7% Agarose

Overdigestion assay:

An unaltered banding pattern was observed after 1μg of
DNA was digested with 20u of *PspOM I* for 16 hours at
37°C.



Activity in Reaction Buffer				
V1	V2	V3	V4	V5
100%	25%	10%	25%	10%

Buffer UB			
0.5X	1.0X	1.5X	2.0X
100%	50%	25%	25%

* Buffer UB is provided for double digestion purpose.

NOTE:

- * Total reaction volume dependent on experiment.
- * The amount of enzyme to be used is very much dependent on the DNA template.
- * For plasmid DNA, 5-10X more enzyme is required.

Example of Digestion Reaction

Enzyme	: 1 unit
Lambda (<i>BamH I</i> Digest) 0.3μg/μl	: 3.33μl (1μg DNA)
10X Reaction Buffer	: 5μl
Sterile Distilled Water	: Up to 50μl

Product Use Limitation

This product is for research purposes and *in vitro* use only.