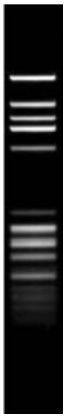
# PspPI (Sau96I)

**5'…G▼GNCC…3'**
**3'…CCNG▲G…5'**

| Content: | Ref No. | 250126S | color |
|---|---|---|---|
| | PspPI 10 U/µL | 500 units | blue |
| | 10x buffer M* | 1x 1 mL | red |
| | 10x buffer K | 1x 1 mL | yellow |
| | Datasheet | | |



Lambda DNA PspPI digest, 1 % agarose

**We recommend the use of buffer K as universal buffer (BSA included).**
**Note:** Incubation at 37 °C results in 60 % activity.

**Storage:** -20 °C

**Concentration:** 10 U/µL

**Source:** PspPI is a restriction enzyme purified from *Psychrobacter immobilis* TA137.

## Enzyme Properties:

**1x buffer M composition:** 10 mM Tris-HCl (pH 7.9 at 25 °C), 50 mM NaCl, 10 mM $MgCl_2$, 1 mM Dithiothreitol.

**General reaction mixture:**

| | |
|---|---|
| 10 U PspPI | 1 µL |
| 10x buffer M* or K | 2 µL |
| DNA substrate | <1 µg |
| Sterile ultrapure water | Up to 20 µL |

**Incubate for 15 min at 25 °C**

**Heat inactivation:** 55 °C for 15 minutes.

**Methylation Sensitivity:**
*dam* methylation: Not sensitive
*dcm* methylation: Blocked by overlapping
CpG methylation: Blocked by overlapping

**Storage buffer:** 10 mM Tris-HCl (pH 7.4), 50 mM NaCl, 0.1 mM EDTA, 1 mM Dithiothreitol, 200 µg/ml BSA and 50 % glycerol. Store at -20 °C.

**Absence of contaminants:** 80 units of PspPI do not produce any unspecific cleavage products after 16 hrs incubation with 1 µg of Lambda DNA at 25 °C. After 50-fold overdigestion with PspPI, greater than 95 % of the DNA fragments can be ligated and recut with this enzyme.

**Unit definition:** One unit is defined as the amount of enzyme required to produce a complete digest of 1 µg Lambda DNA in 60 minutes in a total reaction volume of 0.05 mL under assay conditions.

**Frequency of Cutting:**

| λ | Ad-2 | Φx174 | pUC18 | M13mp18 | pBR322 |
|---|---|---|---|---|---|
| 74 | 164 | 2 | 6 | 4 | 15 |

**Percent Activity in BIORON Buffers:**

| L* | M* | H* | SH* | A* | K |
|---|---|---|---|---|---|
| 50-75 | **100** | 50 | 25-50 | 10 | **100** |

*we recommend the addition of BSA to a final concentration of 100 µg/mL.

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