

5'...T<sup>▼</sup>CTAGA...3'  
 3'...AGATC<sup>▲</sup>T...5'

Content:	Ref No.	250143S	color
Xbal 10 U/μL		3500 units	blue
10x buffer M*		1x 1 mL	red
10x buffer K		1x 1 mL	yellow
Datasheet			



Lambda DNA XbaI  
 digest, 0.7 % agarose

We recommend the use of buffer K as universal buffer (BSA included).

**Storage:** -20 °C

**Concentration:** 10 U/μL

**Source:** XbaI is a restriction enzyme purified from *Xanthomonas badrii*.

#### Enzyme Properties:

**1x buffer M composition:** 10 mM Tris-HCl (pH 7.9 at 25 °C), 50 mM NaCl, 10 mM MgCl<sub>2</sub>, 1 mM Dithiothreitol.

**General reaction mixture:**

10 U XbaI	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 37 °C**

**Heat inactivation:** 65 °C for 20 minutes.

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

**Storage buffer:** 10 mM Tris-HCl (pH 7.4), 100 mM KCl, 0.1 mM EDTA, 1 mM Dithiothreitol, 500 μg/ml BSA and 50 % glycerol. Store at -20 °C.

**Absence of contaminants:** 200 units of XbaI do not produce any unspecific cleavage products after 16 hrs incubation with 1 μg of Lambda DNA (*dam*<sup>-</sup>/HindIII digest at 37 °C. After 100-fold overdigestion with XbaI, greater than 98 % 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
	1	5	0	1	1	0
Percent Activity in BIORON Buffers:	L*	M*	H*	SH*	A*	K
	50-75	100	75	75	75	100

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

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