

5'...T▼CGA...3'
 3'...AGC▲T...5'

Content:	Ref No.	250142S	color
TaqI 10 U/μL		3500 units	blue
10x buffer U _{TaqI} *		1x 1 mL	red
10x buffer K		1x 1 mL	yellow
Datasheet			



Lambda DNA TaqI digest, 1.4 % agarose

Note: Incubation without BSA results in 50% activity.

Storage: -20 °C

Concentration: 10 U/μL

Source: TaqI is a restriction enzyme purified from *Thermus aquaticus* YT 1.

Enzyme Properties:

1x buffer U_{TaqI} composition: 20 mM Tris-HCl (pH 8.5 at 25 °C), 100 mM KCl, 3 mM MgCl₂, 0.04 % Triton X-100.

General reaction mixture:

10 U TaqI	1 μL
10x buffer U _{TaqI} * or K	2 μL
DNA substrate	<1 μg
Sterile ultrapure water	Up to 20 μL

Incubate for 15 min at 65 °C

Heat inactivation: 80 °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), 300 mM KCl, 0.1 mM EDTA, 1 mM Dithiothreitol, 500 μg/ml BSA and 50 % glycerol. Store at -20 °C.

Absence of contaminants: 100 units of TaqI do not produce any unspecific cleavage products after 16 hrs incubation with 1 μg of Lambda DNA (*dam*⁻) at 65 °C. After 50-fold overdigestion with TaqI, 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
	121	50	10	4	12	7
Percent Activity in BIORON Buffers:	L*	M*	H*	SH*	A*	K
	10-25	50-75	75-100	50-75	50	50

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

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