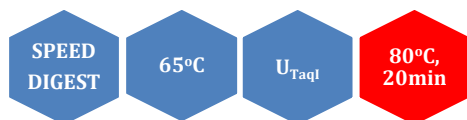


# Taq I



5' ...T▼CGA...3'  
3' ...AGC▲T...5'

TaqI is a restriction enzyme purified from *Thermus aquaticus* YT I.

Catalogue No            142-1, 4000 U  
                                 142-2, 3x4000 U

Concentration            10-12u/μl and 40-60u/μl\*

\*Add an H to cat.# to order the high concentration

**Reagents supplied:** 10x U<sub>TaqI</sub> buffer

**Unit substrate:** Lambda DNA (dam<sup>-</sup>).

**Unit calculation assay conditions:** 100 mM KCl, 20 mM Tris-HCl (pH 8.5 @ 25°C), 3 mM MgCl<sub>2</sub>, 0.04% Triton X-100, 100 μg/ml BSA. Incubate at 65°C.

**Absence of contaminants:** 100 units of *TaqI* do not produce any unspecific cleavage products after 16 hrs incubation with 1 μg of λ DNA (dam<sup>-</sup>) at 65°C. After 50-fold overdigestion with *TaqI*, greater than 95% of the DNA fragments can be ligated and recut with this enzyme.

**Storage buffer:** 300 mM KCl, 10 mM Tris-HCl (pH 7.4), 0.1 mM EDTA, 1 mM dithiothreitol, 500 μg/ml BSA and 50% glycerol. Store at -20°C

**Heat inactivation:** 80°C for 20 minutes.

## Methylation Sensitivity:

dam methylation: Blocked by overlapping

dcm methylation: Not sensitive

CpG methylation: Not sensitive

**Note:** Incubation without BSA results in 50% activity.

## Percent Activity in MINOTECH Buffers

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

## General reaction mixture:

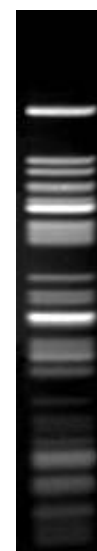
10U TaqI	1μl
10x U <sub>TaqI</sub> buffer *	2μl
DNA substrate	<1μg
Sterile ultrapure water	Up to 20 μl

*Incubate for 15 min at 65°C*

\*We recommend the addition of BSA to a final concentration of 100 μg/ml.

## Frequency of Cutting

λ	Ad-2	Φx174	pUC18	M13mp18	pBR322
121	50	10	4	12	7



Lambda DNA 1.4 % agarose