Data Sheet

IFTA AG
Certified QMS according to
DIN EN ISO 9001:2000-12
Reg. No. IC 03214 034

Jena Bioscience

Taq I

5'…T▼CGA…3'
3'…AGC▲T…5'

Source: *Thermus aquaticus* YT I

	EN-142S	3,500 units	10 u/µl
	EN-142L	17,500 units	10 u/µl

NB:
BSA is already included in the Buffer solution!

Buffer supplied: 10x *Taq* I (incl. 10x BSA).

Substrate for unit definition: λ DNA *dam*. (121 sites).

Reaction conditions:
100 mM KCl, 20 mMTris-HCl (pH 8.5), 3 mM $MgCl_2$, 0.04% Triton X-100, 100 µg/ml BSA.
Digestion is performed in 15 minutes at **65°C**.

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.

Ligation and recutting:
After 10-fold overdigestion with *Taq* I, >90% of the DNA fragments can be ligated and recut with this enzyme.

Note:
Incubation without BSA results in 50% activity.

Methylation sensitivity:
dam methylation: Blocked by overlapping
dcm methylation: Not sensitive
CpG methylation: Not sensitive

Heat inactivation: 80°C for 20 minutes.