



Data Sheet (20.02.2008)

# Taq I



Source: *Thermus aquaticus* YT I

Cat.-No.	Size	Conc.
mi-E0142S	3,500 units	10 u/μl
mi-E0142L	17,500 units	10 u/μl

New unit quantity!

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

**BSA is now already included into the buffer without any loss of performance!**

**Substrate for unit definition:** λ DNA *dam*<sup>-</sup>. (121 sites)

**Reaction conditions:**

100 mM KCl, 20 mM Tris-HCl (pH 8.5), 3 mM MgCl<sub>2</sub>, 0.04 % Triton X-100, 100 μg/ml BSA.

Incubate 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. Avoid warming to 0 °C or higher.

**Under these storage conditions, a guarantee of 12 months after delivery is given.**

**Ligation and recutting:**

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

**Note:**

Taq I is blocked by overlapping *dam* methylation. Incubation without BSA results in 50 % activity.

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