Pseudomonas aeruginosa Topo IV



Product Description (PAT4001, PAT4002 and PAT4003)

Pseudomonas aeruginosa topoisomerase IV is purified after heterologous expression in *E. coli* and is supplied as a complex of the subunits. The enzyme is supplied at a minimum concentration of 5 U/µI in Dilution Buffer. Store at -80°C. It is recommended that the enzyme is aliquoted to avoid repeated freeze-thaw cycles.

For in vitro laboratory research use only.

Dilution Buffer (1X)

50 mM Tris.HCl (pH 7.6) 2 mM DTT 50 % (w/v) glycerol 1 mM EDTA 50 mM NACI

Assay Buffer (supplied as 5X stock)

50 mM HEPES. KOH (pH 7.9)

6 mM magnesium acetate

4 mM DTT

1 mM ATP

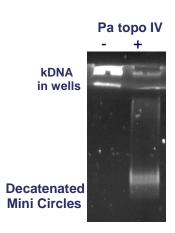
100 mM potassium glutamate

2 mM spermidine

0.05 mg/ml albumin

Decatenation Assay

1 U of topoisomerase IV will decatenate 200 ng of kDNA when incubated in 1X assay buffer in a total reaction volume of 30 μ I at 37°C for 30 minutes. Gels are run in the absence of Ethidium Bromide or Chloroquine.



Quality Control

- 1) Purity: *P. aeruginosa* topo IV is purified to > 95 % purity as judged by SDS-polyacrylamide gel electrophoresis.
- 2) No activity was detectable when the single subunits were assayed alone.
- 3) Decatenation activity was fully inhibited by ciprofloxacin at 100 µM.