Yeast Topoisomerase II
(Saccharomyces cerevisiae)

Product Description (Product Number YT201 and YT205)

Yeast topoisomerase II is prepared by overexpression in *Saccharomyces cerevisiae* and purified by methods developed in-house. The enzyme is supplied at a minimum concentration of 10 U/µl in Dilution Buffer.
Store at -80 °C. (Stable for 3 months undiluted.)

For *in vitro* laboratory research use only.

Dilution Buffer

50 mM Tris.HCl (pH 7.5)
200 mM NaCl
5 mM DTT
1 mM EDTA
50 % (v/v) glycerol

Assay Buffer (supplied as 5X stock)

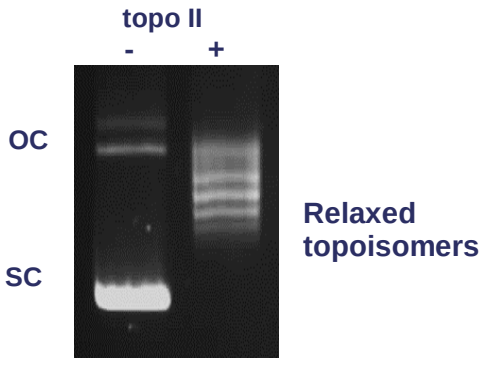
20 mM Tris.HCl (pH7.9)
200 mM KCl
10 mM $MgCl_2$
4 % (v/v) glycerol

ATP (30X stock)

30 mM ATP

Relaxation Assay

1 U of yeast topoisomerase II will relax 0.5 µg of supercoiled pBR322 when incubated in Assay Buffer in a total reaction volume of 30 µl at 30 °C for 30 minutes. Gels are run in the absence of ethidium bromide or chloroquine.



Quality Control

1) Purity: Yeast Topoisomerase II is purified to > 95 % purity as judged by SDS-polyacrylamide gel electrophoresis.
2) Tests for Yeast Topoisomerase I contamination by looking for relaxation of sc pBR322 under topoisomerase I assay conditions were negative.