

Human Topoisomerase I Assay Kit For Cell Extracts



Product Description (Product Numbers TRAK1, TRAK2 and TRAK3)

The kit is designed for use with human topo I or for the detection of human topo I in overexpressed cells. The kit contains 10X assay buffer, dilution buffer, supercoiled plasmid DNA substrate (sufficient for 100 assays) and relaxed DNA control.

Store at - 20 °C.

For *in vitro* laboratory research use only.

Dilution Buffer

10 mM Tris.HCl (pH 7.5)
1 mM DTT
1 mM EDTA
100 mM NaCl
50 % (v/v) glycerol
100 µg/ml albumin

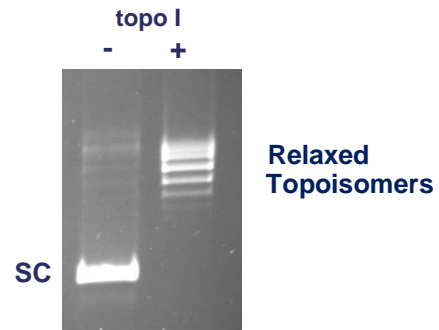
Assay Buffer (supplied as 10X stock)

20 mM Tris.HCl (pH7.5)
200 mM NaCl
0.25 mM EDTA
5 % glycerol
50 µg/ml albumin

Relaxation Assay

1 U of topoisomerase I will relax 0.5 µg of supercoiled pBR322 when incubated in Assay Buffer in a total reaction volume of 30 µl at 37 °C for 30 minutes. Gels are run in the absence of ethidium bromide or chloroquine.

(For cell extracts use increased dilutions to avoid contaminating nuclease activity)



Reference

Stewart, L., Ireton, G.C., Parker, L.H., Madden, K.R. and Champoux, J.J. (1996). Biochemical and biophysical analyses of recombinant forms of human topoisomerase I. *J. Biol. Chem.* 271: 7593-7601