

S. aureus Topoisomerase IV Buffers



Product Description (Product Numbers SATR001, SATD002 and SATD003)

For use with *S. aureus* topoisomerase IV enzyme and overexpressed cell extracts containing *S. aureus* topoisomerase IV enzyme. Store at -80°C.

For *in vitro* laboratory research use only.

Dilution Buffer (1X)

50 mM Tris.HCl (pH 7.5)
1 mM DTT
1 mM EDTA
40 % (w/v) glycerol

Assay Buffer (supplied as 5X stock)

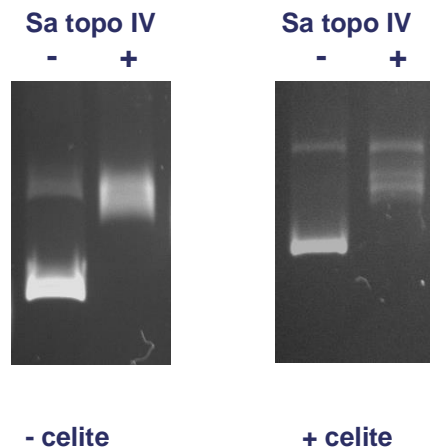
50 mM Tris.HCl (7.5)
5 mM MgCl₂
5 mM DTT
1.5 mM ATP
350 mM potassium glutamate
0.05 mg/ml albumin

DNA Storage Buffer

10 mM Tris.HCl (pH 7.5)
1 mM EDTA

Relaxation Assay

1 U of *S. aureus* topo IV will relax 0.5 µg of supercoiled pBR322 when incubated in 1X 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.



Decatenation Assay

1 U of *S. aureus* topo IV will decatenate 200 ng of kDNA when incubated in 1X 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.

