

Topoisomerase I Assay Kit Cat# 1015

Kit Description:

This assay kit contains reagents for routine detection of type I topoisomerase activity. DNA markers (included) allow unequivocal detection of the enzyme. The assay is specific for topoisomerase I; (eukaryotic type II topoisomerases require MgCl₂ and ATP). The standard kit is supplied with EDTA containing reaction buffer (minus Mg⁺⁺) in order to prevent nucleolytic nicking of the supercoiled substrate (although we note that some eukaryotic type I activities are stimulated by Mg⁺⁺). This assay will work even with crude extracts. A detailed manual of instruction is included that describes how to run the gels to maximally resolve topoisomers for analysis of DNA unwinding.

Kit Contents: (representative for 100 assay kit size):

Supercoiled (form I) plasmid substrate DNA (25 µg in 100 µl TE buffer, or 0.25 µg/ul).

Relaxed plasmid substrate DNA marker, relaxed by topo I (50 ul at 0.05 µg/ml in gel loading buffer).

10X Topo I assay buffer (300 µl).

5X Stop buffer/gel loading dye (600 µl).

Detailed instruction manual.

Sample data and documentation of all controls.

Shipping and Recommended Storage Conditions :

This kit is shipped at ambient temperature and should be stored at 4 C.