

Kinetoplast DNA (kDNA)

(isolated from *Crithidia fasciculata*)



Product Description (Product numbers K2001, K2002, K2003 and K2004)

kDNA is purified from *Crithidia fasciculata* using the method described in Shapiro *et al* (1999).

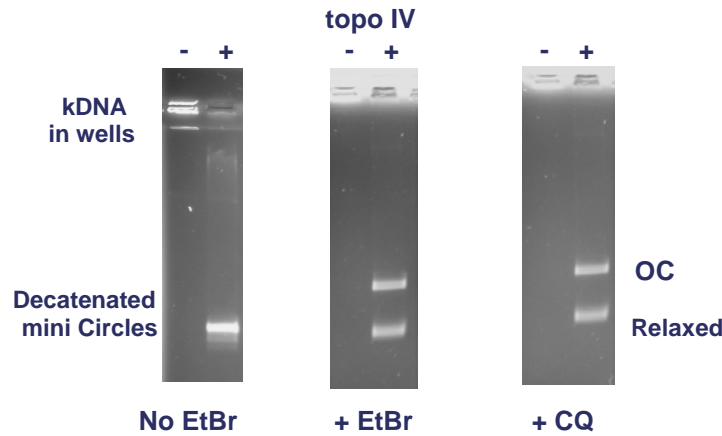
Store at 4 °C. Stable for 12 months.

For *in vitro* laboratory research use only.

kDNA

Supplied at 100 ng/μl
in 10 mM Tris-HCl
(pH 8.0), 1 mM EDTA.

The kDNA should be
stored at 4 °C.



Decatenation Assay

1 U of topoisomerase IV will decatenate
200 ng of kDNA when incubated in Assay Buffer
in a total reaction volume of 30 μl at 37 °C for 30
minutes.

Gels can be run in the presence or absence of
ethidium bromide or chloroquine which will resolve
nicked OC DNA from relaxed.

Quality Control

kDNA is purified to give a ratio of OD₂₆₀ to OD₂₈₀ ratio of 1.8-1.9 with no detectable free mini-circles when catenated kDNA is run on a 1 % agarose gel. Each batch is tested for decatenation with purified topoisomerase IV.

Reference

Shapiro, T.A., Klein, V.A. and Englund, P.T. (1999). Isolation of kinetoplast DNA, in *DNA Topoisomerase Protocols* Vol. I (Bjornsti, M-A and Osherooff, N. 1999). Humana Press, Totowa, N.Jersey pp. 61-68