



Dedicated to Studies of Topoisomerase Enzymes

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<b>Kinetoplast DNA (kDNA)</b>	<b>[TG2013-1 Catenated kDNA</b>	<b>25</b>	<b>ug]</b>
	<b>[TG2013-2 Catenated kDNA</b>	<b>50</b>	<b>ug]</b>
	<b>[TG2013-3 Catenated kDNA</b>	<b>250</b>	<b>ug]</b>
	<b>[TG2017-1 Linear kDNA Marker</b>	<b>10</b>	<b>ug]</b>
	<b>[TG2020-1 Decatenated kDNA</b>	<b>10</b>	<b>ug]</b>

### Quality Control Analysis

1. For catenated kDNA substrate ([TG2013](#)), greater than 80% of the DNA will be retained in the well of a 1 % agarose gel.
2. For decatenated DNA Markers ([TG2020-1](#), topo II pretreated) >98% of the DNA will be either open circular monomer or covalently closed circular product.
3. For linear DNA Markers ([TG2017-1](#), Xho1 digested) >98% of the DNA will be linearized.

### Storage Buffer

- kDNA ([TG2013](#)) is stored in TE buffer (10 mM Tris-Cl (pH 7.5), 1 mM EDTA) at the concentration specified in the above upper right-hand corner.
- Decatenated kDNA and linear DNA markers are provided in sample loading buffer specifically for agarose gel electrophoresis (0.025% bromophenol blue, 5% glycerol, in 10 mM Tris-Cl, pH 7.5, 1 mM EDTA).

### Storage and Shipping Conditions

These DNA substrates should be stored at 4°C. The DNA is shipped at ambient temperature (or may be shipped on dry ice with enzyme shipments).

### References

- Muller et al., Biochemistry 27: 8369-8379 (1988)  
Hajduk et al., Cell 36: 483-492 (1984)  
Saucier et al., BBRC 101: 988-994 (1981)

### Product Application and Disclaimer

This product is not licensed or approved for administration to humans or animals. It may be used with experimental animals only. The product is for in vitro research diagnostic studies only. The product is non-infectious and non-hazardous to human health. This information is based on present knowledge and does not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. TopoGEN, Inc. shall not be held liable for product failure due to mishandling and incorrect storage by end user. TopoGEN's liability is limited to credit or product replacement.

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