



## Product Data

**Product:** Human Hybloc™ DNA  
**Catalog #:** HHB  
**Concentration:** 1 mg/mL (A<sub>260</sub>)  
**Source:** Male Human Placenta  
**Storage:** -20°C

### **Description:**

Human Hybloc™ DNA is the repetitive sequence fraction of genomic DNA obtained from male human placenta by extracting, shearing, denaturing, and reannealing DNA under conditions that enrich for repetitive sequences. Human Hybloc™ DNA may be effectively substituted for any other competitor DNA (e.g., COT-1 DNA®, salmon sperm DNA, genomic DNA, etc.) to suppress cross-hybridization to human repetitive sequences for *in situ* hybridization, Southern blots, microarray technology, or any other protocol requiring competition to block repetitive DNA from binding to the target. Hybridization with Hybloc™ DNA shows a marked increase in signal intensity and a significant decrease in the amount of background noise associated with repetitive DNA.

### **How Supplied:**

Human Hybloc™ DNAs are supplied in various quantities at 1 mg/mL in 10 mM Tris-HCl (pH 7.4), 1 mM EDTA.

### **Quality Control Assay:**

Determination of concentration from the A<sub>260</sub> and determination of the A<sub>260</sub>/A<sub>280</sub> ratio (1.8 to 2.0); determination of molecular size: ≥80% of Human Hybloc™ DNA will run as a broad band between the 50 bp and 600 bp size range.

### **References:**

- Landegent JE, Jansen in de Wal N, Dirks RW, Bao F, van der Ploeg M. Use of whole cosmid cloned genomic sequences for chromosomal localization by non-radioactive *in situ* hybridization. *Human Genetics* 1987 Dec;77(4):366-70.
- Lengauer C, Riethman H, Cremer T. Painting of human chromosomes with probes generated from hybrid cell lines by PCR with Alu and L1 primers. *Human Genetics* 1990 Nov;86(1):1-6.
- Lichter P, Cremer T, Borden J, Manuelidis L, Ward DC. Delineation of individual human chromosomes in metaphase and interphase cells by *in situ* suppression hybridization using recombinant DNA libraries. *Human Genetics* 1988 Nov;80(3):224-34.
- Lichter P, Tang CJ, Call K, Hermanson G, Evans GA, Housman D, Ward DC. High resolution mapping of human chromosome 11 by *in situ* hybridization with cosmid clones. *Science* 1990 Jan5;247(4938):64-9.
- Scalzi JM, & Hozier JC. Comparative genome mapping: mouse and rat homologies revealed by fluorescence *in situ* hybridization. *Genomics* 1998 Jan1;47(1):44-51.

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