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Certificate of Analysis

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Human COT DNA

Catalog No: 4520

Lot No: See Product Label

Package Size: See Product Label

Concentration: See Product Label

A₂₆₀/ A₂₈₀ Ratio: 1.82

Storage Conditions: Store at -20°C

Note: Store the working solution at 4°C

Description

- Human placenta COT DNA has been optimized for a size range of 50 to 300 base pairs which represents the theoretical maximum size for repetitive sequences
- 0.5 mg is sufficient for 5 to 10 Southern or 500 in situ hybridizations

Applications

- Human placenta COT DNA decreases false positive signals in Microarrays, in situ Hybridizations, and Southern blots by acting as a blocking agent for repetitive sequences
- Can be used to block non-specific hybridization in microarray screening

Storage Buffer

10 mM Tris-HCl (pH 7.4)
1 mM EDTA
(in 1X TE Buffer)

Quality Control

Determination of Molecular Size: When analyzed on a 4% agarose gel, >50% of Human COT DNA migrates between 50-300 base pairs.

Y-Chromosome: Material manufactured from only male placentas

Comparable Intensity: 2 µg and 3 µg of Lot 2909037 had intensity in agarose gel with EtBr similar to master lot

Human COT DNA Preparation: Human COT DNA has been prepared by methods including phenol extraction; which is known to inactivate biological agents. This product should be handled using **Biosafety Level 2** procedures.

Disease Testing

The material used in the production of Human COT DNA tested negative for the following diseases, by an FDA-Licensed method:

- Hepatitis B Surface Antigen (HBsAg)
- Hepatitis C Antibody Screen (HCV-Ab)
- Syphilis (SYPT or SYPR)
- HIV-1/2 Antibody Screen
- HTLV-I/II Antibody Screen