



1681 N. Bristol Street  
Sun Prairie, WI 53590  
Ph: 608.825.8888  
Fax: 608.825.8999

## CERTIFICATE OF ANALYSIS

**Cot I, Human DNA**  
**Part Number: M205**  
**Lot Number: XXXXX**  
**Storage Temperature: -20°C**

**Source:** From human male placenta DNA exclusively by shearing, denaturing and reannealing under conditions that enrich these repetitive elements.

**Applications:** In situ suppression (CISS) hybridizations  
Hybridization to micro-arrays  
Other In situ hybridizations  
Filter hybridizations

**Size:** Bulk

**Concentration:**  $\geq 1.1$  mg/ml

**Storage Buffer:** 10 mM Tris-HCl (pH 7.4), and 1 mM EDTA.

**Quality Control:** Average fragments size: 50-300 bp;  
A260/A280 ratio: 1.6 – 2.0  
Amount of genomic (non-repetitive DNA): less than 2%.  
COT I DNA and the raw material is tested for the absence of HIV1,2 RNA, HCV RNA, HBV DNA

**Storage and Handling:** Store at  $-20^{\circ}\text{C}$ , before use the frozen product should be at  $4^{\circ}\text{C}$  slowly thawed

**For Southern blot hybridizations:** add 50  $\mu\text{g}$  of COT-1 human DNA (@ 10  $\mu\text{g}/\mu\text{L}$ ) to 50  $\mu\text{L}$  of 20X SSC, 25  $\mu\text{L}$  distilled water and 20  $\mu\text{L}$  of a solution containing 0.1 M NaCl, 0.1 M Tris-HCl (pH 7.4), 0.01 M EDTA, and 1% SDS to the probe for each 25 to 500 ng of probe.

**For in situ hybridizations:** combine genomic probe with the proper amount of COT-1 human DNA such that the final concentration of COT-1 human DNA is 0.3  $\mu\text{g}/\mu\text{L}$  for cosmid, plasmid, and lambda probes; or, at 1  $\mu\text{g}/\mu\text{L}$  for Alu PCR probes. Ethanol precipitate and resuspend in a half-volume of 100% formamide. Add a half-volume of 20% dextran sulfate in 2X SSC (prewarmed to 75 degrees C) and mix well. Denature mix by heating to  $75^{\circ}\text{C}$  for 5 min. Incubate at  $37^{\circ}\text{C}$  for at least 5 and up to 15 min.

**Links:**

[High-sensitivity detection of DNA hybridization on microarrays using resonance light scattering.](#)

[Isolation and characterization of the human cytochrome P450 CYP1B1 gene.](#)

The performance of this product is guaranteed for twelve months from the date of purchase if stored and handled properly. Unless specified otherwise, all Alator Biosciences products are sold for research use only.