

BlueGnome Limited



COT Human DNA

Version 1.0

Model number

4135-3

1. Supply

BlueGnome's COT Human DNA is supplied in a single, 1.5ml, screw capped tube labelled with quantity (0.2 mg), order reference number, production lot number, storage conditions and expiry date.

2. Size

Each tube contains 200 µl of COT Human DNA (1 mg/ml).

When used in accordance with the standard CytoChip protocol this is sufficient for 8 hybridizations (25 µl per hyb).

If using the CytoChip Oligo ISCA 4x44K array this is sufficient for 40 hybridizations (5 µl per hyb).

3. Storage

COT Human DNA is shipped on dry ice and upon receipt should be stored at -20 °C until required.

COT Human DNA should be used before the expiry date.

4. Description

COT Human DNA is prepared from human placental DNA by shearing, denaturing, and reannealing under conditions that enrich for abundant repetitive elements.

The COT fraction of human genomic DNA consists largely of rapidly annealing repetitive elements. These interspersed repetitive sequences (IRS), such as SINEs (small interspersed repetitive elements, e.g., Alu elements) and LINES (large interspersed repetitive elements, e.g., L1 elements), are distributed ubiquitously throughout the genome.

5. Quality control

Each batch of COT Human DNA is tested through four standard CytoChip sex-mismatched, dye swap hybridizations. The spread of data points on the autosomal chromosomes and the shift from 0 (log₂ scale) of data points on the sex chromosomes are used as a measure of quality and have to exceed a threshold set from historical data. In addition, a previous good stock of COT Human DNA is used in a parallel hybridization and a comparison with the new batch is made.

6. Intended use

You are responsible for understanding and performing the protocols supplied with CytoChip microarrays and interpreting the results. BlueGnome does not guarantee any results that you may achieve. All results should be confirmed using an alternative technique.

Research Use Only. Not for use in diagnostic procedures.

7. Contents	Part No.	Amount
COT Human DNA	4135-3	0.2 mg

8. MSDS

Material safety data sheets are available as stated or as a download from www.cytochip.com

COT Human DNA On request

9. History

Date	Version	Comment
14 th July 2009	1.0	Original creation

10. Further information

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