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COT Human DNA

Binds repetitive sequences in genomic DNA.

Description

COT Human DNA is used in hybridization experiments to bind to repetitive sequences in genomic DNA. COT Human DNA thereby prevents non-specific binding of labeled products to target sequences, eg, in an array comparative genomic hybridization (arrayCGH) assay.

COT Human DNA is included with Illumina microarray packs: 0.2 mg is included in CytoChip™ Oligo/ISCA Packs; 0.4 mg is included in 24sure™ and CytoChip Focus Constitutional Packs.

Supply

COT Human DNA is supplied on dry ice in a single, 1.5 ml, screw-capped tube labeled with quantity (0.2 mg or 0.4 mg), order reference number, production lot number, storage conditions, and expiration date.

Storage

Store COT Human DNA at -20°C in a non–frost-free freezer until required.

Use COT Human DNA before the expiration date.

Technical Specifications

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, eg, Alu elements) and LINEs (large interspersed repetitive elements, eg, L1 elements), are distributed ubiquitously throughout the genome.

COT Human DNA is supplied at a concentration of 1 mg/ml.

Quality Control

Each batch of COT Human DNA is tested through four standard CytoChip sex-mismatched, dye-swap hybridizations using the CytoChip laboratory protocols. The spread of data points on the autosomal chromosomes, and the shift from 0 ($\log_2$ scale) of data points on the sex chromosomes are used as a measure of quality. They 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 compared to the new batch. Each batch is aliquoted into individual tubes during preparation of each lot. Fill volumes are checked for each lot created.

Contents

See Table 1 for a complete list of kit contents and part numbers.

Safety Information

Safety data sheets are available for download from www.cambridgebluegnome.com.

PR-40-413503/413510: COT Human DNA

Additional Documents

Additional documents available for download include:

- Laboratory Reference Manuals: 24sure Dual Channel, CytoChip, CytoChip Oligo
- Laboratory Summary Protocols: 24sure Dual Channel, CytoChip, CytoChip Oligo

Table 1: COT Human DNA Contents

Catalog No.	Product	No. Hybridizations	Included With	Size
PR-40-413503-00	COT Human DNA (0.2 mg)	40: 4× formats, 5 µl/hyb 100: 8× formats, 2 µl/hyb	CytoChip Oligo/ISCA	200 µl
PR-40-413510-00	COT Human DNA (0.4 mg)	16: 25 µl/hyb	CytoChip Focus Constitutional 24sure Dual Channel	400 µl

AGAATGATAACAGTAACACACTTCTGTTAACCTTAAGATTACTTGATCCACTGATTCAACGTACCGTAACGAACGTATCAATTGAGACTAAATATTAACGTACCATTAAGAGCTACCGTCTTCTGTTAACCTTAAGATTACTTGATCCACTGATTCAAC
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Ordering Information

Product	Catalog No.
COT Human DNA (0.2 mg)	PR-40-413503-00

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