

USER GUIDE



Version 1.0 (March, 2010)

Product:	Megapool Reference DNA
Catalog number:	EA-100M (male) & EA-100F (female)
Unit Size:	200 µg
Storage buffer:	10 mM Tris-HCl (pH 9), 0.5 mM EDTA
Storage conditions:	2 - 8 °C

A. Description

Both the EA-100M and EA-100F product is genomic DNA isolated from 100 individual male and female anonymous donors. The genomic DNA is isolated from whole blood samples of each individual separately. All DNA samples are tested on DNA integrity and purity. Regarding integrity 90% of the DNA is longer than 30kb in size as measured on a 1% agarose gel. The purity of the DNA samples has been determined by spectrophotometry ($OD_{260/230} \geq 1.5$ and $OD_{260/280}$ 1.6-1.9). In addition, the product has been quality controlled on BAC arrays by performing array CGH experiments hybridizing male vs. female genomic DNA.

B. Application

Until recently, Reference DNA which is used in array CGH / CNV studies is, in general consisting of a genomic DNA pool from only a very limited number of donors. Such limited pools carry the risk that a cryptic genetic aberration in any of the donors included in those reference pools may influence the array CGH analysis. This is ultimately leading to misinterpretation of the array CGH data. Megapool Reference DNA is available as separate pools of male and female donors. Pooling of the genomic DNA from large numbers of individuals guarantees comparable profiles for male and female individuals as well as complete absence of pure homozygous deletions in the reference DNA pools. In consequence, only sex-matched array CGH experiments will be performed, in order to get high-quality genotyping data for both chromosomes X and Y.

C. Experimental description

The product can be used in any array CGH hybridization / CNV protocol or microarray platform of choice and is compatible with any labeling technology (including the ULS labeling). Input amounts of the Megapool DNA should be similar with the input amount of the DNA to be tested. When using the ULS labeling technology the Megapool Reference DNA should be fragmented to a fragment range size similar as the to be tested DNA before labeling and using for array CGH/CNV studies.

NOTE: The human-source material used in the production of this procedure is tested negative for hepatitis B virus, hepatitis C virus, human immunodeficiency virus (HIV-1) and type-2 (HIV-2) and syphilis.

THIS PRODUCT IS INTENDED FOR RESEARCH USE ONLY. IT IS NOT INTENDED FOR DIAGNOSTIC APPLICATIONS and/or COMMERCIAL PURPOSES.

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