CENTOGENE
THE RARE DISEASE COMPANY

CentoArrayCyto®

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CENTOGENE's microarray-based solution – CentoArrayCyto® – enables detection of known and novel structural aberrations, such as copy number variations (CNVs), chromosomal imbalances, regions exhibiting loss/absence of heterozygosity (LOH), uniparental isodisomy (UPD), and mosaicism. With markers targeted at both polymorphic and non-polymorphic regions spread across the genome, analysis of multiple genes associated with wide-ranging phenotypes can be performed in a single assay. CENTOGENE's semi-automated preparation platform for CentoArrayCyto® reduces the variability between samples and provides high-quality, consistent data suitable for diagnostic applications.

CentoArrayCyto® — Key Features

- Combines copy number markers with single nucleotide polymorphism (SNP) markers at medium to high density to provide a high resolution with broad coverage
- Detects copy number changes across the genome with a resolution down to 25kb
- Confidently detects presence of mosaicism down to 30%
- Compatible with a wide range of samples, including blood, DNA, fresh and frozen tissues, amniocytes, and bone marrow aspirate
- An impressive turnaround time (TAT) of 15 business days

CentoArrayCyto® is available in HD and 750K format

	CentoArrayCyto® HD	CentoArrayCyto® 750K
FEATURES	High-density array to detect structural aberrations, such as CNVs, chromosomal imbalances, LOH, UPD, and mosaicism	Medium-density, cost-effective array to detect structural aberrations, such as CNVs, chromosomal imbalances, LOH, UPD, and mosaicism
TOTAL MARKERS	2.6 Million	750,000
NON-POLYMORPHIC	1.9 Million	550,000
POLYMORPHIC	750,000	200,000
DETECTION RANGE OF CNVS	>25kb for copy number loss >200kb for copy number gain	>100kb for copy number loss >200kb for copy number gain

When to recommend CentoArrayCyto®

- As a first-step analysis for cases of intellectual disability and/or multiple malformations given that a considerable number of chromosomal rearrangements and CNVs have been implicated in such disorders
- In conjunction with whole exome analysis to complement large CNVs. CentoArrayCyto® can be ordered either as a step-wise analysis with WES or as part of an attractive combined WES package
- As a CNV screening for large NGS panels when sequencing results are negative and single exon resolution analysis is not available
- For deletion/duplication analysis of extremely large genes where gross deletions involving large segments of genes, flanking intergenic regions, or neighboring genes are frequently reported
- To diagnose uniparental isodisomy (UPD) and regions exhibiting loss/absence of heterozygosity (LOH)
- For prenatal testing to help determine a cause of ultrasound-detected abnormalities (in this case, trio analysis of the index and the parents is highly recommended)

CONTACT AND CUSTOMER SERVICE

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