Reveal[SM] SNP Microarray

Integrated GENETICS
LabCorp Specialty Testing Group

Revealing Answers to Complex Questions

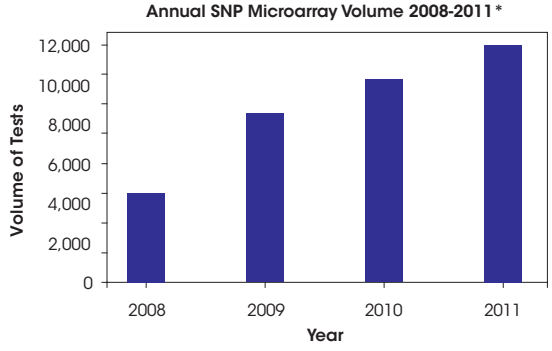
Reveal[SM] SNP Microarray is a high density array that detects chromosomal imbalances related to fetal loss. ACOG recommends reflexing to microarray when routine chromosome analysis fails.[1] Reveal[SM] SNP Microarray can also be performed directly on POC tissue without having to grow cells, optimizing success rate and turn around time. Partial moles (associated with triploidy) and complete invasive molar pregnancies (of androgenic origin), can be readily diagnosed. The abnormalities in complete molar pregnancies cannot be detected by chromosome analysis, and neither complete nor partial moles can be analyzed by oligo or BAC CGH array technologies.

Rely on Integrated Genetics for all of your microarray and cytogenetic testing needs.

- Cutting edge technology platform provides enriched gene coverage and better detection of mosaicism.
- An extensive database* of abnormalities detected by high resolution microarray provides an exceptional reference to support interpretation.
- Easy-to-understand reports provide clinically relevant interpretations.
- Results can be obtained even for compromised specimens including those with low tissue viability, bacterial contamination or maternal cell culture overgrowth.
- Maternal cell contamination is typically detected by this array, so a maternal blood sample is not usually required.
- Integrated Genetics' comprehensive diagnostic services provide added convenience for your patient-appropriate microarray, cytogenetics, FISH and molecular genetics testing needs.
- Genetics experts are readily accessible to answer questions.
- Contracted with close to 700 health plans to help minimize patient out-of-pocket costs.

Integrated Genetics Comprehensive Testing Services

Over 30,000 SNP arrays analyzed since 2008.*



* Database of over 30,000 samples run at LabCorp's Center for Molecular Biology and Pathology.

Clinical Indications:

- Fetal loss/stillbirth initially or when conventional chromosome analysis cannot be obtained
- Identification of genomic imbalance, partial or complete molar pregnancy

> American College of Obstetricians and Gynecologists (ACOG) Recommendation includes:[1]
> *Microarrays "…in concert with genetic counseling, can be offered as an adjunct tool in prenatal cases with abnormal anatomic findings and a normal conventional karyotype, as well as in cases of fetal demise with congenital anomalies and the inability to obtain a conventional karyotype."*

Reveal[SM] SNP Microarray Product Specifications and Advantages:

- More than 2.6 million copy number and allele specific genomic sites
  - Probe median marker spacing in the International Standards for Cytogenomic Arrays (ISCA) genes ~384 bp
  - More than 750,000 SNP probes provide both genotyping and copy number analysis
  - More than 1.9 million region specific copy number probes
  - 100% ISCA constitutional gene and X chromosome coverage
- Results reported for:
  - Deletions greater than 1 Mb, duplications greater than 2 Mb
  - Clinically significant genes are analyzed at a lower threshold (as small as 50 Kb) for deletions or duplications
  - Specific genes may be analyzed at an exon level on request
  - Allele homozygosity associated with complete moles and allele dosage ratios associated with partial moles
  - Detection of UPD and consanguinity
- Approximately 97% assay success rate[2]

Specimen Requirements:

At least 2-4 mm^3 non-fixed tissue or products of conception (POC)/placental villus biopsy in a sterile container with sterile:

- Transport media provided by our laboratory,
- Ringer's lactate, or
- Hanks' balanced salt solution.

(Do not use isotonic saline or urine containers for shipping.)

To learn more about POC diagnosis of chromosome abnormalities, please visit www.integratedgenetics.com and www.labcorp.com or call 800-345-GENE (4363).

REFERENCES

1) Array Comparative Genomic Hybridization in Prenatal Diagnosis. *Obstetrics & Gynecology* 2009; 114:1161-3.
2) Based on LabCorp internal data on file.

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