
Lab Dept: **Anatomic Pathology**

Test Name: **CGH WITH SNP**

General Information

Lab Order Codes: SNPA

Synonyms: CGH with Single Nucleotide Polymorphism Array; Comparative Genomic Hybridization (CGH) with Single Nucleotide Polymorphism (SNP array); Chromosomal Microarray (Copy Number/SNP); Congenital/Constitutional SNP

CPT Codes: 81229 – Cytogenomic constitutional (genome-wide) microarray analysis; interrogation of genomic regions for copy number and single nucleotide polymorphism (SNP) variants for chromosomal abnormalities

88230 – Tissue culture for non-neoplastic disorders; lymphocyte

88233

Test Includes: An interpretive report of findings.

Logistics

Test Indications: For detection of small duplications and deletions in patients with normal G-banded karyotypes. For characterization of abnormalities detected by G-banding.

Lab Testing Sections: Anatomic Pathology – Sendouts

Referred to: University of Medical Center Fairview Cytogenetics (UM Test Code: LAB6575/CGH SNP)

Phone Numbers: MIN Lab: 612-813-6280

STP Lab: 651-220-6550

Test Availability: Daily

Turnaround Time: Results within 28 days

Special Instructions: For optimal testing results the specimen must arrive within 24 hours of collection.

Specimen

Specimen Type:	Whole blood Cord blood, Products of Conception or Skin are also acceptable specimen types.
Container:	Green (NaHeparin; no gel) top tube AND Purple (EDTA) top tube Note: Both tubes are required. Alternate: Yellow (ACDA) can be used instead of the EDTA.
Draw Volume:	Optimal volume: 10 mL blood: 5 mL blood in Green NaHeparin (no gel) AND 5 mL blood in Purple (EDTA) Minimum volume: 6 mL blood: 3 mL blood in Green NaHeparin (no gel) AND 3 mL blood in Purple (EDTA) (Note: 1-3 mL in each tube will be accepted for infants and small children) Products of Conception (POC)/Skin: Portion of placenta at least 1 cm ³ containing 35-55 mg of Villi in sterile plastic leakproof container. Skin, cord or fetal tissue: 3-4 mm punch skin biopsy If obtained at autopsy, at least 1 cm ³ including dermis in sterile plastic leakproof container.
Processed Volume:	Same as Draw Volume
Collection:	Routine venipuncture
Special Processing:	Lab Staff: Do Not Centrifuge. Blood specimen should remain in the original collection container. Store and ship at ambient temperature. Avoid freezing.
Patient Preparation:	None
Sample Rejection:	Clotted or frozen specimen; mislabeled or unlabeled specimens; incorrect container type

Interpretive

Reference Range:	An interpretive report will be provided.
Critical Values:	N/A
Limitations:	Post-natal specimens only. Specimens must be received in the Cytogenetics Laboratory Mon-Fri by 5:30 pm; weekends and holidays by 4:30 pm. Specimens received after these cutoffs will be processed the following day.

Methodology: Copy Number and SNP Chromosomal Microarray (CMA)

References: [Fairview Diagnostic Laboratories](#) January 2023

Updates: 7/21/2017: CPT update
3/13/2023: Updated synonyms, CPT codes, minimum volumes, specimen viability/stability, acceptable specimen types and reference laboratory receiving limitations.