
Lab Dept: **Anatomic Pathology**

Test Name: **CGH WITH SNP ARRAY AND LIMITED G BAND**

General Information

Lab Order Codes: CGSNB

Synonyms: Comparative Genomic Hybridization (CGH) with Single Nucleotide Polymorphism & Limited G-Bands Analysis; Constitutional Chromosomal Microarray (Copy Number/SNP) with Limited G-band analysis

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
88261
88230
88233

Test Includes: An interpretive report of findings.

Logistics

Lab Testing Sections: Anatomic Pathology – Sendouts

Referred to: University of Minnesota Medical Center Fairview Cytogenetics (UM Test Code: LAB6601/CGSNPL)

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 cm³ containing 35-55 mg of Villi in sterile plastic leakproof container with RPMI media or sterile saline if RPMI is not available.

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.

Stability: For optimal testing results, the specimen must arrive at reference lab within 24 hours of collection. Specimens may be viable for the cell culture for the G-banding for up to 72 hours. Partial results from DNA extraction may be available for specimens up to 7 days.

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: 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.

Specimens for G-banding studies are only viable for culture for up to 72 hours.

Methodology: Chromosomal microarray with limited chromosome analysis by G-banding

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

Updates: 3/13/2023: Initial Lab Test Directory entry