
Lab Dept: **Anatomic Pathology**

Test Name: **FANCONI ANEMIA CHROMOSOME ANALYSIS**

General Information

Lab Order Codes: FANCM

Synonyms: Fanconi Mutagen Sensitivity Study; DEB Test; Mutagen Stress Test; Mitomycin C Test; Chromosome Analysis, Blood, Fanconi Mutagen Sensitivity

CPT Codes: 88230 – Tissue culture for non-neoplastic disorders; lymphocyte
88249 – Chromosome analysis for breakage syndromes; score 100 cells, clastogen stress
88291 – Cytogenetics and molecular cytogenetics, interpretation and report

Test Includes: Diagnostic report

Logistics

Test Indications: Useful for the differential diagnosis between idiopathic aplastic anemia and Fanconi anemia. After treatment with similar doses of bifunctional alkylating agents such as Diepoxybutane (DEB) or Mitomycin C (MMC). Fanconi anemia patients will typically show a greater than 50-fold increase in rates of chromosome breakage compared to concurrent controls or other aplastic anemia patients.

Lab Testing Sections: Anatomic Pathology - Sendouts

Referred to: University of Minnesota Medical Center Fairview – Cytogenetics Laboratory
(UM Test Code: LAB4755/FANCCG)

Phone Numbers: MIN Lab: 612-813-6280

STP Lab: 651-220-6550

Test Availability: Daily, 24 hours

Turnaround Time: Performed daily; results are reported within 7-14 days

Special Instructions: Provide diagnosis (or reason for referral), clinical status, information regarding medication or transfusions. Obtain Green Sodium Heparin (no gel) tube from the laboratory.

Specimen

Specimen Type:	Whole blood
Container:	Green top (Sodium Heparin, no gel) tube. Obtain from laboratory.
Draw Volume:	5 mL preferred (Minimum: 3 mL) whole blood
Processed Volume:	Same as Draw Volume
Collection:	Routine venipuncture
Special Processing:	<p>Lab Staff: Store and ship specimen at room temperature. Do not centrifuge, refrigerate or freeze.</p> <p>For optimal testing results, the specimen must arrive at the reference laboratory within 24 hours. Specimens must be received in the Cytogenetics laboratory Mon-Fri by 5:30 pm. Weekends and holidays by 4:30 pm. Specimens received after the above cut off times will be processed the following day.</p>
Patient Preparation:	None
Sample Rejection:	Clotted specimen; incorrect anticoagulant or gel tube; mislabeled or unlabeled specimen

Interpretive

Reference Range:	Interpretive report
Critical Values:	N/A
Limitations:	N/A
Methodology:	Chromosome breakage analysis
References:	MHealth Fairview Reference Laboratory December 2023
Updates:	<p>2/5/2013: CPT update</p> <p>12/8/2015: Order code change</p> <p>6/7/2023: Updated specimen volumes and methodology, added reference lab test codes</p> <p>12/28/2023: Updated test directory link, added synonym.</p>