
Lab Dept: Pathology

Test Name: CHROMOSOME, BLOOD, BREAKAGE SYNDROME

General Information

Lab Order Codes: BREAK

Synonyms: Spontaneous Chromosomal Breakage

CPT Codes: 88230 – tissue culture for non-neoplastic disorders
88248 – Chromosome analysis for breakage syndromes; baseline breakage, score 50-100 cells, count 20 cells, 2 karyotypes (eg, for ataxia telangiectasia, Fanconi anemia, fragile X).

Test Includes: Determined by laboratory director based on clinical information.

Logistics

Test Indications: Evaluation of baseline (sometimes referred to as spontaneous) chromosomal breakage may be indicated in patients who:

Have had intentional or accidental exposure to radiation or other clastogen exposure.

Are suspected of having a chromosomal instability disorder such as ataxia telangiectasia or Nijmegen Breakage Syndrome.

Lab Testing Sections: Anatomic Pathology - Sendouts

Referred to: Fairview University Cytogenetics

Phone Numbers: MIN Lab: 612-813-6280

STP Lab: 651-220-6550

Test Availability: Daily, 24 hours

Turnaround Time: Results within 29 days.

Special Instructions: Special tube required. [See Container](#), contact the laboratory for appropriate tube.

Specimen

Specimen Type: Whole blood

Container:	Green top (Sodium Heparin), no gel, tube
Draw Volume:	10 mL (Minimum: 5 mL) blood
Processed Volume:	Same as Draw Volume
Collection:	Routine venipuncture
Special Processing:	Lab Staff: Do Not centrifuge. Forward specimen to Send Outs. Store and ship at room temperature. Must arrive at reference lab within 24 hours of collection. Order in Atlas and include collect date/time, ordering MD, specimen type, diagnosis/reason for referral.
Patient Preparation:	None
Sample Rejection:	Improper storage, mislabeled or unlabeled specimen

Interpretive

Reference Range:	An interpretive report will be provided
Critical Values:	N/A
Limitations:	N/A
Methodology:	Methodology is determined by lab director based on clinical indications.
References:	Fairview University Laboratories September 2010