

Chromosome Analysis, CpG Mitogen Study for B-cell Disorder #89090

USEFUL FOR: Identifying chromosome abnormalities associated with B-cell disorders

METHODOLOGY: Cell culture with CpG mitogen

REFERENCE VALUES: An interpretive report will be provided

SPECIMEN REQUIREMENTS:

Blood: Container/Tube: Green-top (sodium heparin) tube(s)

Specimen Volume: 5 mL to 10 mL of whole blood

Bone Marrow: Container/Tube: Green-top (sodium heparin) tube(s)

Specimen Volume: 2 mL to 3 mL of bone marrow

Lymph Node: Container/Tube: Sterile container with sterile Hank's balanced salt solution (Supply T132), Ringer's solution, or normal saline

Specimen Volume: 1 cm(3) of tissue

NOTE: Spleen tissue or extranodal tissue may be submitted when a lymphomatous disorder is believed to involve these tissues.

CAUTIONS:

- Peripheral blood is preferred over bone marrow or lymph node specimens.
- Fluorescence in situ hybridization (FISH) studies may detect some disorders better than chromosome studies. For CLL, FISH studies will detect chromosome abnormalities with prognostic significance much more often than chromosome studies. FISH studies also may be superior for other hematologic disorders when compared to chromosome studies utilizing blood specimens.
- This test does not replace FISH testing as several abnormalities seen by FISH are cryptic (undetected) by conventional chromosome analysis; both FISH and chromosome analysis using CpG cell culture techniques are recommended.
- **Interfering factors**
 - Technical: - Cell lysis caused by forcing blood quickly through the needle at collection
 - Use of an improper anticoagulant (sodium heparin is best) or not mixing the blood with the anticoagulant
 - Excessive transport time
 - Exposure of the specimen to temperature extremes (freezing or >30 degrees C)
 - Biological: - Abnormalities may missed due to statistical sampling error
 - Subtle structural chromosome abnormalities may be missed (occasionally)
 - Neoplastic cells not dividing or not circulating in the bloodstream

LIST FEE: \$902.75

CPT CODE:

88237/Tissue culture

88262/Chromosome analysis

88291/Interpretation and report

ANALYTIC TIME: 10 days

DAY(S) SET-UP: Monday through Friday; 6 a.m.-9 p.m.,
Saturday, Sunday; 6 a.m.-4 p.m.

QUESTIONS: Contact your Mayo Medical Laboratories' Regional Manager or
Marvin H. Anderson, Jr., MML Laboratory Technologist Resource Coordinator
Telephone: 800-533-1710