

CHROMOSOME  
ANALYSIS, BONE  
MARROW/ BONE  
ONCOLOGY  
STUDIES

## Orderable – Use requisition to order

Turnaround Time: 3 weeks

STAT: 1 week

### Alternate Name(s):

Chromosomes  
Karyotype  
Banding  
G-Banding



**Laboratory:**  
Cytogenetics Lab



**Requisition:**  
[CYTOGENETICS  
REQUISITION](#)



**Method of Analysis:**  
Cell culture, Chromosome  
Karyotyping



**Test Schedule:**  
As required

### Specimen:

1-2 mL of bone marrow in a 3 mL Sodium Heparin Vacutainer (see Collection Information)

**Note: Bone Marrow is the preferred sample for chromosome studies**

or

3-6 mL peripheral venous blood in a sterile, Sodium Heparin Vacutainer. If <3 mL is collected, it must be in a 3 mL Vacutainer to allow for appropriate sample to anticoagulant ratio.

**Peripheral blood samples require >10% blasts for chromosome study**

### Collection Information:

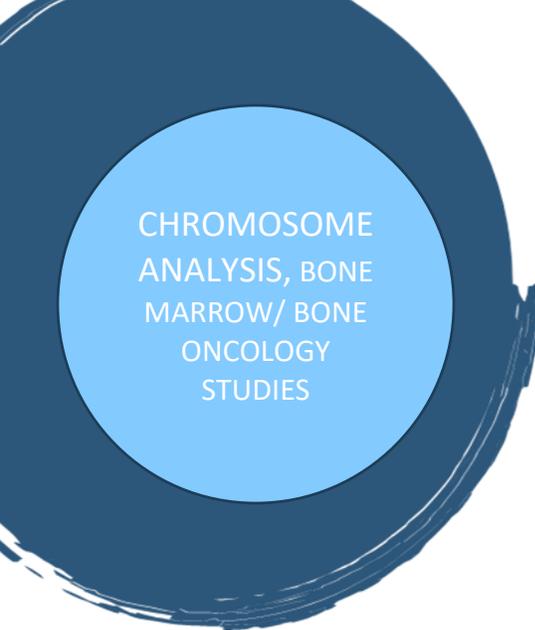
Specimens should be collected at room temperature (15-25°C) and sent STAT to the laboratory. Receipt of specimens is required the same day as collection. Do not freeze, heat, open or separate sample (must maintain sterility). Lithium heparin or EDTA specimens are unacceptable. All containers should contain at least two patient identifiers.

### Reference Ranges:

See report

### Interpretive Comments:

Useful in diagnosing various types of leukemia's and for other malignancies. Used to monitor bone marrow transplants.



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### Special Processing:

Culture success is dependent on receipt of the sample immediately.

### Comments:

The Cytogenetics Lab is staffed from 0700-1700 (Monday-Friday), ext. 78974 (office), or 75714 (lab).

For additional information please refer to the [Molecular Diagnostics Laboratory](#).

### Critical Information Required:

Peripheral blood samples require >10% blasts for chromosome study.  
Appropriate analysis requires all relevant and pertinent clinical information.  
Culture success is dependent on receipt of the sample immediately.  
A sodium heparin vacutainer is required (all other anticoagulants are unacceptable).

### Storage and Shipment:

Specimens should be shipped same day and stored at 15°C-25°C during transit. If unable to transport immediately, store at 4°C and transport at room temperature (15-25°C) within 24 hours.