

Chronic Eosinophilia Panel, Diagnostic FISH, Varies

Test ID: EOSFD

Useful for:

Detecting a neoplastic clone associated with the common chromosome abnormalities seen in patients with myeloid/lymphoid neoplasms with eosinophilia and gene rearrangement (including PDGFRA, PDGFRB, FGFR1, JAK2, ABL1 and FLT3) using a laboratory-designated probe set algorithm

Supporting the diagnosis of malignancy if a clone is present

Evaluating specimens in which standard cytogenetic analysis is unsuccessful

Reflex Tests:

Test ID	Reporting Name	Available Separately	Always Performed
EOSBD	Probe, Each Additional (EOSFD)	No (Bill Only)	No

Methods:

Fluorescence In Situ Hybridization (FISH)

Reference Values:

An interpretive report will be provided.

Specimen Requirements:

Submit only 1 of the following specimens:

Preferred Specimen

Type: Bone Marrow

Container/Tube:

Preferred: Yellow top (ACD)

Acceptable: Green top (sodium heparin) or lavender top (EDTA)

Specimen Volume: 2 to 3 mL

Collection Instructions:

1. It is preferable to send the first aspirate from the bone marrow collection.
2. Invert several times to mix bone marrow.

3. Send bone marrow in original tube. Do not aliquot.

Minimum Volume: 1 mL

Acceptable Specimen Type: Whole blood

Container/Tube:

Preferred: Yellow top (ACD)

Acceptable: Green top (sodium heparin) or lavender top (EDTA)

Specimen Volume: 6 mL

Collection Instructions:

1. Invert several times to mix blood.
2. Send whole blood in original tube. Do not aliquot.

Minimum Volume: 2 mL

Specimen Stability Information:

Specimen Type	Temperature	Time
Varies	Ambient (preferred)	
	Refrigerated	

Cautions:

This test is not approved by the US Food and Drug Administration, and it is best used as an adjunct to clinical and pathologic information.

Fluorescence in situ hybridization (FISH) is not a substitute for conventional chromosome studies because the latter detects chromosome abnormalities associated with other hematological disorders that would be missed by this FISH panel test.

Bone marrow is the preferred sample type for this FISH test. If bone marrow is not available, a blood specimen may be used if there are neoplastic cells in the blood specimen (as verified by a hematopathologist).

If no FISH signals are observed post-hybridization, the case will be released indicating a lack of FISH results.

CPT Code:

88271x12, 88275x6, 88291x1-FISH Probe, Analysis, Interpretation; 6 probe sets
88271x2, 88275x1-FISH Probe, Analysis; each additional probe set (if appropriate)

Day(s) Performed: Monday through Friday

Report Available: 7 to 10 days

Questions

Contact Josh Couchene, Laboratory Resource Coordinator at 800-533-1710.