MAYO CLINIC LABORATORIES

NEW TEST

Notification Date: November 9, 2021
Effective Date: December 13, 2021

B-Cell Lymphoma, Specified FISH, Varies

Test ID: BLPMF

Useful for:
Detecting a neoplastic clone associated with the common chromosome abnormalities seen in patients with various B-cell lymphomas

Tracking known chromosome abnormalities and response to therapy in patients with B-cell lymphoma

Evaluating specimens in which standard cytogenetic analysis is unsuccessful

Testing Algorithm:
This test includes a charge for application of the first probe set (2 fluorescence in situ hybridization [FISH] probes) and professional interpretation of results. Additional charges will be incurred for all reflex probes performed. Analysis charges will be incurred based on the number of cells analyzed per probe set.

When this test and flow cytometry testing for leukemia/lymphoma are ordered concurrently, the flow cytometry result will be utilized to determine if sufficient clonal B-cells are available for FISH testing. If the result does not identify a sufficient clonal B-cell population, this FISH test order will be canceled, and no charges will be incurred.

When specified, any of the following probes will be performed:
8q24.1 rearrangement, MYC break-apart
t(2;8)(p12;q24.1), IGK/MYC fusion
t(8;14)(q24.1;q32), MYC/IGH fusion
t(8;22)(q24.1;q11.2), MYC/IGL fusion
t(3q27;var) rearrangement, BCL6 break-apart
t(18q21;var) rearrangment, BCL2 break-apart
t(11;14)(q13;q32), CCND1/IGH fusion
-17/17p-, TP53/D17Z1
7q-, D7Z1/7q32

Reflex Tests:

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

Methods:

Fluorescence In Situ Hybridization (FISH)

Reference Values:

An interpretive report will be provided.

Specimen Requirements:

Preferred Specimen Type: Bone marrow

Preferred Container/Tube: Yellow top (ACD)

Acceptable Container/Tube: Green top (heparin) or lavender top (EDTA)

Specimen Volume: 2-3 mL

Minimum Volume: 1 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.

Acceptable Specimen Type: Blood

Preferred Container/Tube: Yellow top (ACD)

Acceptable Container/Tube: Green top (heparin) or lavender top (EDTA)

Specimen Volume: 6 mL

Minimum Volume: 2 mL

Collection Instructions:

1. Invert several times to mix blood.

Note:

1. A list of probes requested for analysis is required. Probes available for this test are listed in the Testing Algorithm section.

2. A reason for testing and a flow cytometry and/or a bone marrow pathology report should be sent with each specimen. The laboratory will not reject testing if this information is not provided, however appropriate testing and/or interpretation may be compromised or delayed in some instances. If this information is not provided, an appropriate indication for testing may be entered by Mayo Clinic Laboratories.

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 existing clinical and pathologic information.

Bone marrow is the preferred sample type for this fluorescence in situ hybridization 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).

CPT Code:

88271 x2, 88275 x1, 88291 x1- FISH Probe, Analysis, Interpretation; 1 probe set

88271 x2, 88275 x1 – FISH Probe, Analysis; each additional probe set (if appropriate)

Day(s) Performed: Monday through Friday **Report Available:** 7 to 10 days

Questions

Contact Joshua Couchene Laboratory Technologist Resource Coordinator at 800-533-1710.