



Reporting Title: ALL (B-cell), Specified FISH

Performing Location: Rochester

Ordering Guidance:

This test is intended for instances when targeted B-cell acute lymphoblastic leukemia/lymphoma (B-ALL/LBL) fluorescence in situ hybridization (FISH) probes are needed based on specific abnormality or abnormalities identified in the diagnostic sample. The FISH probes must be specified on the request when ordering.

If targeted FISH probes are not included with this test order, test processing will be delayed, and the test may be canceled by the laboratory.

If targeted probes are not included with this test request, the test may be canceled and automatically reordered by the laboratory as BALAF / B-Cell Acute Lymphoblastic Leukemia/Lymphoma (ALL), FISH, Adult, Varies or BALPF / B-Cell Acute Lymphoblastic Leukemia/Lymphoma (ALL), FISH, Pediatric, Varies depending on the age of the patient.

For an adult patient, if the entire B-cell ALL FISH panel is preferred, order BALAF / B-Cell Acute Lymphoblastic Leukemia/Lymphoma (ALL), FISH, Adult, Varies.

For a pediatric patient, if the entire B-cell ALL FISH panel is preferred, order BALPF / B-Cell Acute Lymphoblastic Leukemia/Lymphoma (ALL), FISH, Pediatric, Varies.

At diagnosis, both conventional cytogenetic studies (CHRBM / Chromosome Analysis, Hematologic Disorders, Bone Marrow) and either BALAF / B-Cell Acute Lymphoblastic Leukemia/Lymphoma (ALL), FISH, Adult, Varies or BALPF / B-Cell Acute Lymphoblastic Leukemia/Lymphoma (ALL), FISH, Pediatric, Varies should be performed.

If the patient clinically relapses, a conventional chromosome study may be useful to identify cytogenetic changes in the neoplastic clone or the possible emergence of a therapy-related myeloid clone.

If this test is ordered and the laboratory is informed that the patient is 30 years of age and under AND is on a Children's Oncology Group (COG) protocol, this test will be canceled and automatically reordered by the laboratory COGBF / B-Cell Acute Lymphoblastic Leukemia/Lymphoma (ALL), Children's Oncology Group Enrollment Testing, FISH, Varies.

For patients with B-cell lymphoma, order BLPMF / B-Cell Lymphoma, Specified FISH, Varies.

For testing paraffin-embedded tissue samples from patients with B-ALL/LBL, order BLBLF / B-Cell Acute Lymphoblastic Leukemia/Lymphoma, FISH, Tissue. If a paraffin-embedded tissue sample is submitted for this test, it will be canceled and BLBLF will be added and performed as the appropriate test.

Shipping Instructions:

Advise Express Mail or equivalent if not on courier service.

Necessary Information:

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 submitted 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 not provided, an appropriate indication for testing may be entered by Mayo Clinic Laboratories.

Specimen Requirements:

Submit only 1 of the following specimens:

Preferred

Specimen Type: Bone marrow

Container/Tube:

Preferred: Yellow top (ACD)

Acceptable: Green top (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 specimen in original tube. Do not aliquot.

Acceptable

Specimen Type: Whole blood

Container/Tube:

Preferred: Yellow top (ACD)

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

Specimen Volume: 6 mL

Collection Instructions:

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

Specimen Minimum Volume:

Whole blood: 2 mL; Bone marrow: 1 mL

Forms:

If not ordering electronically, complete, print, and send a Hematopathology/Cytogenetics Test Request (T726) with the specimen.

Specimen Type	Temperature	Time	Special Container
Varies	Ambient (preferred)		
	Refrigerated		

**Ask at Order Entry (AOE) Questions:**

Test ID	Question ID	Description	Type	Reportable
BALMF	GC101	Reason for Referral	Plain Text	Yes
BALMF	GC102	Probes Requested	Plain Text	Yes
BALMF	GC103	Specimen: <ul style="list-style-type: none">• Whole blood ACD• Bone marrow ACD• Whole blood Na Hep• Bone marrow Na Hep• Whole blood EDTA• Bone marrow EDTA	Answer List	Yes

Result Codes:

Result ID	Reporting Name	Type	Unit	LOINC®
614217	Result Summary	Alphanumeric		50397-9
614218	Interpretation	Alphanumeric		69965-2
614219	Result Table	Alphanumeric		93356-4
614220	Result	Alphanumeric		62356-1
GC101	Reason for Referral	Alphanumeric		42349-1
GC102	Probes Requested	Alphanumeric		78040-3
GC103	Specimen	Alphanumeric		31208-2
614221	Source	Alphanumeric		31208-2
614222	Method	Alphanumeric		85069-3
614223	Additional Information	Alphanumeric		48767-8
614224	Disclaimer	Alphanumeric		62364-5
614225	Released By	Alphanumeric		18771-6

LOINC and CPT codes are provided by the performing laboratory.

Supplemental Report:

No

CPT Code Information:

88271 x2, 88275 x1, 88291 x1- FISH Probe, Analysis, Interpretation; 1 probe sets
88271 x2, 88275 x1 - FISH Probe, Analysis; each additional probe set (if appropriate)
88271 x1 -FISH Probe; coverage for sets containing 3 probes (if appropriate)



Reflex Tests:

Test ID	Reporting Name	CPT Units	CPT Code	Always Performed	Orderable Separately
BALMB	Probe, Each Additional (BALMF)			No	No (Bill Only)
BAL3B	Probe, Tri-color (BAL)			No	No (Bill Only)

Reference Values:

An interpretive report will be provided.