
Reporting Title: Ph-like ALL(B-cell), Diag FISH**Performing Location:** Rochester**Ordering Guidance:**

This test is intended to be ordered when the entire Philadelphia chromosome-like acute lymphoblastic leukemia (Ph-like B-cell ALL) fluorescence in situ hybridization (FISH) panel is needed.

If this test is ordered concurrently with either BALAF / B-Cell Acute Lymphoblastic Leukemia/Lymphoma (ALL), FISH, Adult, Varies or BALPF / B-Cell Acute Lymphoblastic Leukemia/Lymphoma (ALL), FISH, Pediatric, Varies, this test will be canceled. The probes offered in this test are included within BALAF and BALPF, when appropriate.

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

If limited Ph-like B-cell ALL FISH probes are preferred, order BALMF / B-Cell Acute Lymphoblastic Leukemia/Lymphoma (ALL), Specified FISH, Varies.

At diagnosis, conventional cytogenetic studies (CHRBM / Chromosome Analysis, Hematologic Disorders, Bone Marrow) and a complete B-ALL FISH panel, either 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, should be performed.

At follow-up, conventional cytogenetic studies (CHRBM / Chromosome Analysis, Hematologic Disorders, Bone Marrow) and targeted B-ALL FISH probes can be evaluated based on the abnormalities identified in the diagnostic study. Order BALMF / B-Cell Acute Lymphoblastic Leukemia/Lymphoma (ALL), Specified FISH, Varies and request specific probes or abnormalities.

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.

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

For testing paraffin-embedded tissue samples from patients with B-cell lymphoblastic lymphoma, order BLBLF / B-Cell Lymphoblastic Leukemia/Lymphoma, FISH, Tissue. If a paraffin-embedded tissue sample is submitted for this test, testing 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:

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, but appropriate testing and interpretation may be compromised or delayed in the absence of this information. 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: 2-3 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: 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:

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 |
|---------|-------------|--|-------------|------------|
| PHLDF | GC077 | Reason for Referral | Plain Text | Yes |
| PHLDF | GC078 | 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® |
|-----------|------------------------|--------------|------|---------|
| 609578 | Result Summary | Alphanumeric | | 50397-9 |
| 609579 | Interpretation | Alphanumeric | | 69965-2 |
| 609580 | Result Table | Alphanumeric | | 93356-4 |
| 609581 | Result | Alphanumeric | | 62356-1 |
| GC077 | Reason for Referral | Alphanumeric | | 42349-1 |
| GC078 | Specimen | Alphanumeric | | 31208-2 |
| 609582 | Source | Alphanumeric | | 31208-2 |
| 609583 | Method | Alphanumeric | | 85069-3 |
| 609584 | Additional Information | Alphanumeric | | 48767-8 |
| 609585 | Disclaimer | Alphanumeric | | 62364-5 |
| 609586 | Released By | Alphanumeric | | 18771-6 |

LOINC and CPT codes are provided by the performing laboratory.

Supplemental Report:

No

CPT Code Information:

88271x14, 88275x7, 88291 x1-FISH Probe, Analysis, Interpretation; 7 probe sets
88271x2, 88275x1-FISH Probe, Analysis; each additional probe set (if appropriate)

Reflex Tests:

| Test ID | Reporting Name | CPT Units | CPT Code | Always Performed | Orderable Separately |
|---------|--------------------------------|-----------|----------|------------------|----------------------|
| PHLDB | Probe, Each Additional (PHLDF) | | | No | No (Bill Only) |

Reference Values:

An interpretive report will be provided.