

**Reporting Title:** Reflex Testing of MYD88 and CXCR4  
**Performing Location:** Rochester

**Shipping Instructions:**  
Whole blood or bone marrow specimens must arrive within 10 days of collection.

**Necessary Information:**  
The following information is required:

1. Pertinent clinical history
2. Clinical or morphologic suspicion
3. Date and time of collection
4. Specimen source

**Specimen Requirements:**  
Submit only 1 of the following specimens:

**Preferred:**  
**Specimen Type:** Bone marrow  
**Container/Tube:**  
**Preferred:** Lavender top (EDTA)  
**Acceptable:** Yellow top (ACD)  
**Specimen Volume:** 2 mL  
**Collection Instructions:**

1. Invert several times to mix bone marrow
2. Send bone marrow specimen in original tube. **Do not aliquot.**
3. Label specimen as bone marrow

**Specimen Stability Information:** Ambient (preferred)/Refrigerated

**Specimen Type:** Paraffin-embedded tissue  
**Container/Tube:** Paraffin block  
**Specimen Stability:** Ambient

**Specimen Type:** Paraffin-embedded bone marrow aspirate clot  
**Container/Tube:** Paraffin block  
**Specimen Stability:** Ambient

**Specimen Type:** Tissue  
**Slides:** Unstained slides  
**Specimen Volume:** 10 to20 slides  
**Additional Information:** Tissue must demonstrate involvement by a hematologic neoplasm (eg, acute myelocytic leukemia), not solid tumors.  
**Specimen Stability Information:** Ambient

Test Definition: LPLFX

Lymphoplasmacytic Lymphoma/Waldenstrom  
Macroglobulinemia, MYD88 L265P with Reflex  
to CXCR4, Varies

**Acceptable:**  
**Specimen Type:** Whole blood  
**Container/Tube:**  
**Preferred:** Lavender top (EDTA)  
**Acceptable:** Yellow top (ACD)  
**Specimen Volume:** 3 mL  
**Collection Instructions:**  
1. Invert several times to mix blood  
2. Send whole blood specimen in original tube. **Do not aliquot.**  
3. Label specimen as blood  
**Specimen Stability Information:** Ambient (preferred)/Refrigerated

**Specimen Type:** Extracted DNA  
**Container/Tube:** 1.5- to 2-mL tube with indication of volume and concentration of the DNA  
**Specimen Volume:** Entire specimen  
**Collection Instructions:** Label specimen as extracted DNA and list the specimen source. Include indication of volume and concentration of the DNA.  
**Specimen Stability Information:** Frozen (preferred)/Refrigerated/Ambient

**Forms:**  
1. [Hematopathology Patient Information](#) (T676)  
2. If not ordering electronically, complete, print, and send a [Hematopathology/Cytogenetics Test Request](#) (T726) with the specimen.

Specimen Type	Temperature	Time	Special Container
Varies	Varies	10 days	

Ask at Order Entry (AOE) Questions:

Test ID	Question ID	Description	Type	Reportable
LPLFX	MP042	Specimen Type	Plain Text	Yes

Result Codes:

Result ID	Reporting Name	Type	Unit	LOINC®
MP042	Specimen Type	Alphanumeric		31208-2
601511	LPLFX Reflex Result	Alphanumeric		82140-5
601510	Final Diagnosis	Alphanumeric		50398-7

LOINC® and CPT codes are provided by the performing laboratory.

Lymphoplasmacytic Lymphoma/Waldenstrom  
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Supplemental Report:

No

CPT Code Information:

81305

Reflex Tests:

Test Id	Reporting Name	CPT Units	CPT Code	Always Performed	Available Separately
CXCFX	CXCR4, Gene Mutation, Reflex	1	81479	No	Yes, (order CXLPL), Bill Only

Reference Values:

MYD88 L265P: Mutation present or absent based on expected variant polymerase chain reaction product size for the MYD88 gene (NCBI accession NM\_002468.4).

CXCR4: Mutation present or absent in the test region c. 898-1059 (amino acids 300-353) of the CXCR4 gene (NCBI NM\_003467.2, GRCh37).