



## Test Definition: NGAML

MayoComplete Acute Myeloid Leukemia,  
11-Gene Panel, Varies

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**Reporting Title:** AML, 11 Gene, NGS, V

**Performing Location:** Mayo Clinic Laboratories - Rochester Main Campus

**Ordering Guidance:**

This gene panel is a subset of the NGS<sup>SM</sup> / MayoComplete Myeloid Neoplasms, Comprehensive OncoHeme Next-Generation Sequencing, Varies test and focuses more specifically on the gene mutations that are most prevalent and clinically significant in acute myeloid leukemias (AML). If a wider gene mutation analysis is desired or the indication for testing is for a myeloid malignancy other than AML, consider NGS<sup>SM</sup>.

**Shipping Instructions:**

**Bone marrow and whole blood specimens must arrive within 14 days of collection.**

**Necessary Information:**

**The following information is required:**

1. Clinical diagnosis
2. Pertinent clinical history, including disease phase (diagnostic, remission, relapse/refractory) and therapy status (especially if patient has received a hematopoietic stem cell transplant).
3. Clinical or morphologic suspicion
4. Date of collection
5. Specimen source

**Specimen Requirements:**

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

**Preferred:**

**Specimen Type:** Bone marrow aspirate

**Container/Tube:**

**Preferred:** Lavender top (EDTA) or yellow top (ACD)

**Acceptable:** Green top (sodium heparin)

**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) 14 days/Refrigerate 14 days

**Additional Information:** To ensure minimum volume and concentration of DNA is met, the requested volume must be submitted. Testing may be canceled if DNA requirements are inadequate.

**Acceptable:**

**Specimen Type:** Whole blood

**Container/Tube:**

**Preferred:** Lavender top (EDTA) or yellow top (ACD)

**Acceptable:** Green top (sodium heparin)

**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) 14 days/Refrigerate 14 days

**Additional Information:** To ensure minimum volume and concentration of DNA is met, the requested volume must be submitted. Testing may be canceled if DNA requirements are inadequate.

**Specimen Type:** Extracted DNA from blood or bone marrow

**Container/Tube:** 1.5 to 2 mL tube

**Specimen Volume:** Entire specimen

**Collection Instructions:**

1. DNA must be extracted within 14 days after collection.
2. Label specimen as extracted DNA and source of specimen.
3. Provide volume and concentration of the DNA.

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

**Additional Information:** DNA must be extracted in a CLIA-certified laboratory or equivalent and must be extracted from a specimen type listed as acceptable for this test (including applicable anticoagulants). We cannot guarantee that all extraction methods are compatible with this test. If testing fails, one repeat will be attempted, and if unsuccessful, the test will be reported as failed and a charge will be applied.

**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	14 days	

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

Test ID	Question ID	Description	Type	Reportable
NGAML	MP038	Specimen Type	Plain Text	Yes

**Result Codes:**

Result ID	Reporting Name	Type	Unit	LOINC®
43554	NGAML Result	Alphanumeric		No LOINC Needed
43488	Pathogenic Mutations Detected	Alphanumeric		82939-0
43487	Interpretation	Alphanumeric		69047-9
43489	Clinical Trials	Alphanumeric		82786-5
43490	Variants of Unknown Significance	Alphanumeric		93367-1

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43491	Additional Notes	Alphanumeric		48767-8
43492	Method Summary	Alphanumeric		85069-3
43493	Disclaimer	Alphanumeric		62364-5
43494	AML Panel Gene List	Alphanumeric		36908-2
43495	Reviewed By	Alphanumeric		18771-6
MP038	Specimen Type	Alphanumeric		31208-2

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

### Supplemental Report:

No

### CPT Code Information:

81450

### Reference Values:

An interpretive report will be provided