

Overview

Useful For

Reserving nucleic acid on any specimen for which molecular analysis requiring DNA may be necessary at a future date, ensuring that adequate material for testing is available

Testing Algorithm

DNA will be extracted from the specimen and stored at -80 degrees Celsius for 1 year from the date of the extraction process was performed. A report of "Performed" will be sent and a \$50.00 processing fee will be assessed. To request molecular testing from the Molecular Hematopathology Laboratory's test menu, call 800-533-1710. Additional charges will be assessed for testing performed.

Special Instructions

- [Hematopathology Patient Information](#)

Method Name

Nucleic Acid Extraction

NY State Available

Yes

Specimen

Specimen Type

Varies

Specimen Required

Specimen must arrive within 168 hours of draw. Draw and package specimen as close to shipping time as possible.

Submit only 1 of the following specimens:

Specimen Type: Blood

Container/Tube:

Preferred: Lavender top (EDTA)

Acceptable: Yellow top (ACD)

Specimen Volume: 4 mL

Collection Instructions:

1. Invert several times to mix blood.
2. Send specimen in original tube.
3. Label specimen as blood.

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 specimen in original tube.
3. Label specimen as bone marrow.

Forms

1. [Hematopathology Patient Information](#) (T676) in Special Instructions

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

Specimen Minimum Volume

Blood, Bone Marrow: 1 mL

Reject Due To

| | |
|-----------------|-------------------------------------------------------|
| Gross hemolysis | Reject |
| Other | Paraffin-embedded material Fluids Heparinized samples |

Specimen Stability Information

| Specimen Type | Temperature | Time | Special Container |
|---------------|---------------------|--------|-------------------------|
| Varies | Ambient (preferred) | 7 days | PURPLE OR PINK TOP/EDTA |
| | Refrigerated | 7 days | PURPLE OR PINK TOP/EDTA |

Clinical and Interpretive

Clinical Information

It is frequently useful to obtain nucleic acid from clinical samples containing a hematopoietic neoplasm at the time of diagnosis, so that appropriate material is available for molecular analysis should subsequent testing be required. For example, when a diagnosis of acute myelogenous leukemia is made, there is a delay before karyotype information, which determines whether testing for molecular prognostic markers is necessary, is available. After this delay, the diagnostic sample is usually no longer available or the nucleic acid has degraded to such an extent that it is no

longer adequate for testing. Thus, it is useful to obtain nucleic acid on such specimens promptly at diagnosis and retain it until it is known whether additional testing is necessary.

Reference Values

Not applicable

Interpretation

A report of "Performed" will be sent and a \$50 processing fee will be assessed. No interpretation will be given. Should the sample be used in future testing, interpretation would be incorporated with the final testing.

Cautions

The nucleic acid will be held at -80 degrees Celsius for 1 year from the time of extraction. The nucleic acid may only be used for suitable tests offered by the Molecular Hematopathology Laboratory at Mayo Clinic. Nucleic acid cannot be shipped to another institution for testing and cannot be released for research use.

Only liquid blood specimens will be processed. Paraffin-embedded material and fresh, solid tissue will not be accepted at this time.

Performance**Method Description**

DNA is extracted using an automated system (Qiagen EZ1 BioRobots). The system includes a sample lysis step followed by binding of nucleic acid to a solid phase for separation from other cellular components and a final nucleic acid elution step.

PDF Report

No

Day(s) and Time(s) Test Performed

Monday through Saturday

Specimens received Sunday will be processed Monday.

Analytic Time

2 days

Maximum Laboratory Time

5 days

Specimen Retention Time

DNA stored 1 year

Performing Laboratory Location

Rochester

Fees and Codes**Fees**

- Authorized users can sign in to [Test Prices](#) for detailed fee information.
- Clients without access to Test Prices can contact [Customer Service](#) 24 hours a day, seven days a week.

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- Prospective clients should contact their Regional Manager. For assistance, contact [Customer Service](#).

Test Classification

Not Applicable

LOINC® Information

| Result ID | Test Result Name | Result LOINC Value |
|-----------|-----------------------------|--------------------|
| MP034 | Specimen Type | 31208-2 |
| 41995 | DNA Extract and Hold Result | No LOINC Needed |
| 38305 | DNA Extraction | No LOINC Needed |