



Reporting Title: BCR/ABL1 Mutation, Sequencing

Performing Location: Rochester

Ordering Guidance:

This is the preferred initial test to identify the presence of acquired BCR/ABL1 mutations associated with tyrosine kinase inhibitor (TKI)-resistance. This is the preferred initial test to identify the presence of acquired BCR::ABL1 mutations associated with tyrosine kinase inhibitor (TKI)-resistance.

Additional testing options are available. For ordering guidance see BCR/ABL1 Ordering Guide for Blood and Bone Marrow.

Shipping Instructions:

1. Refrigerated specimens must arrive within 5 days of collection, and ambient specimens must arrive within 3 days of collection.
2. Collect and package specimen as close to shipping time as possible.

Necessary Information:

Pertinent clinical history including if the patient has a diagnosis of chronic myelogenous leukemia or other BCR::ABL1-positive neoplasm is required.

Specimen Requirements:

Submit only 1 of the following specimens:

Preferred:

Specimen Type: Whole blood

Container/Tube: Lavender top (EDTA)

Specimen Volume: 10 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.

Acceptable:

Specimen Type: Bone marrow

Container/Tube: Lavender top (EDTA)

Specimen Volume: 4 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 Minimum Volume:



Blood: 8 mL; Bone marrow: 2 mL

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	Refrigerated (preferred)	5 days	PURPLE OR PINK TOP/EDTA
	Ambient	72 hours	PURPLE OR PINK TOP/EDTA

Ask at Order Entry (AOE) Questions:

Test ID	Question ID	Description	Type	Reportable
BAKDM	MP004	Specimen Type	Plain Text	Yes
BAKDM	MOFF	BCRABL Fusion (210, 190, 205, 230)	Plain Text	Yes
BADX	MP001	Specimen Type	Plain Text	No

Result Codes:

Result ID	Reporting Name	Type	Unit	LOINC®
MP004	Specimen Type	Alphanumeric		31208-2
MOFF	BCRABL Fusion (210, 190, 205, 230)	Alphanumeric		55135-8
19824	Final Diagnosis:	Alphanumeric		34574-4

LOINC and CPT codes are provided by the performing laboratory.

Supplemental Report:

No

CPT Code Information:

81170-ABL1 (ABL proto-oncogene 1, non-receptor tyrosine kinase)(eg, acquired imatinib tyrosine kinase inhibitor resistance), gene analysis, variants in the kinase domain



Reflex Tests:

Test ID	Reporting Name	CPT Units	CPT Code	Always Performed	Orderable Separately
BADX	BCR/ABL1, RNA-Qual, Diagnostic			No	Yes

Result Codes for Reflex Tests:

Test ID	Result ID	Reporting Name	Type	Unit	LOINC®
BADX	39466	Diagnostic BCR/ABL1 Result	Alphanumeric		No LOINC Needed
BADX	MP001	Specimen Type	Alphanumeric		31208-2
BADX	19783	Interpretation	Alphanumeric		69047-9

Reference Values:

An interpretive report will be provided.