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**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.

**Forms:**

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

Test Definition: BAKDM

BCR/ABL1, Tyrosine Kinase Inhibitor  
Resistance, Kinase Domain Mutation Screen,  
Sanger Sequencing, Varies

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

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	Available Separately
BADX	BCR/ABL1, RNA-Qual, Diagnostic	1	81206	No	Yes

Result Codes for Reflex Tests:

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

Test Definition: BAKDM

BCR/ABL1, Tyrosine Kinase Inhibitor  
Resistance, Kinase Domain Mutation Screen,  
Sanger Sequencing, Varies

Reference Values:

An interpretive report will be provided.