



Laboratory Service Manual

Lab Dept: Anatomic Pathology

Test Name: BCR-ABL BY PCR, QUALITATIVE

General Information

Lab Order Codes: BCRL

Synonyms: Philadelphia Chromosome Ph1

CPT Codes: 83914 x2 – Molecular diagnostics; mutation identification enzymatic ligation or primer extension, single segment, each segment.

83900x2 - Molecular diagnostics; amplification, target, multiplex, first 2 nucleic acid sequences

83901 x10 – Molecular diagnostics; amplification, target, multiplex, each additional nucleic acid sequence beyond 2.

83902 x2 – Molecular diagnostics; reverse transcription

83891 – Molecular diagnostics; isolation or extraction of highly purified nucleic acid

Test Includes: Detect the presence or absence of BCR/ABL mRNA. If positive, the fusion variant will be reported.

Logistics

Test Indications: Aids in the diagnostic workup for patients with bcr/abl-positive neoplasms, predominantly CML and ALL. When positive, the test identifies which mRNA fusion variant is present to guide selection of an appropriate monitoring assay. If a quantitative monitoring assay is not available for a rare fusion variant, this assay may be of some value for monitoring, as it is quite sensitive and can provide a positive or negative result.

Lab Testing Sections: Anatomic Pathology – Sendouts

Referred to: Mayo Medical Laboratories (MML Test # 89006)

Phone Numbers:

Minneapolis: 612-813-6280

Saint Paul: 651-220-6550

Test Availability: Daily, 24 hours



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Turnaround Time:	Results are reported in 2 - 4 days
Special Instructions:	Complete and submit " MayoConnect Additional Test Information Form " with the specimen. Include the following information: patient's name, referring (ordering) physician, specimen submitted & pertinent clinical history.

Specimen

Specimen Type:	Whole blood or Bone marrow
Container:	Lavender top (EDTA) tube
Draw Volume:	4 mL (Minimum: 1 mL) blood 3 mL (Minimum: 1 mL) bone marrow
Processed Volume:	Same as Draw Volume
Collection:	Routine venipuncture; Routine bone marrow collection. Gently invert tube to mix.
Special Processing:	Lab Staff: Do Not Centrifuge. Specimen should remain in the original collection container. Label specimen appropriately (blood or bone marrow). Store and ship at room temperature. Forward promptly. Specimen must arrive at Mayo within 72 hours of collection.
Patient Preparation:	N/A
Sample Rejection:	Mislabeled or unlabeled specimens. Specimens other than blood or bone marrow.

Interpretive

Reference Range:	Interpretive report. A qualitative result is provided that indicates the presence or absence of BCR/ABL mRNA. When positive, the fusion variant is also reported.
Critical Values:	N/A
Limitations:	This test is only qualitative and should not be used for routine monitoring. Monitoring of most CML patients should be performed using BCR/ABL, RNA Quant, monitor CML Mayo test #89007. Monitoring of patients known to carry a p190 fusion should be performed using BCR/ABL, p190, Quant Mayo test #83336.
Methodology:	Reverse Transcription-Polymerase Chain Reaction (RT-PCR) with Fluorescent-Bead Array Analysis.
References:	Mayo Medical Laboratories July 2009



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