
Lab Dept: Flow Cytometry

Test Name: MINIMAL RESIDUAL DISEASE (MRD) UNIVERSITY OF WASHINGTON

General Information

Lab Order Codes: MRDB

Synonyms: MRD; B-ALL MRD Panel; MRD for Research Eligibility; MRD by Flow Cytometry, bone marrow

CPT Codes: 88184 – Flow cytometry, cell surface, cytoplasmic, or nuclear marker, technical component only; first marker
88185 x(5-14) – Flow cytometry, cell surface, cytoplasmic, or nuclear marker, technical component only, each additional marker

Test Includes: Interpretive report

Logistics

Test Indications: Monitoring MRD for research eligibility or protocol requirements only.

Lab Testing Sections: Flow cytometry – Sendout

Referred to: University of Washington Hematopathology Lab (aka Seattle Cancer Care or Fred Hutch Cancer Care; Reference Lab Test Code: SMP)

Phone Numbers: MIN Lab: 612-813-6280
STP Lab: 651-220-6550

Test Availability: Collect Sunday – Thursday, Friday before noon (optimal results if specimen received within 48 hours of collection)

Turnaround Time: 4 – 8 days

Special Instructions: Complete U of Washington Requisition, indicate disease phase.

Do not collect on Saturdays due to specimen viability limits.

Lab billing to be completed after report is available indicating total number of markers analyzed.

Specimen

Specimen Type: Bone marrow aspirate

Container:	Heparinized syringe, transferred to lavender EDTA tube or green Heparin (NO GEL) tube
Draw Volume:	2-5 mL bone marrow aspirate
Processed Volume:	Same as Draw Volume
Collection:	Routine bone marrow collection procedure. Reference lab instructions indicate first pull is preferred.
Special Processing:	<p>Lab Staff: Do not centrifuge. Specimen received in heparinized bone marrow collection syringe should be transferred to EDTA or heparin (NO GEL) vacutainer tube.</p> <p>Sendouts Lab Staff: Complete the Flow Cytometry MRD section of the UWash Hematopathology Lab Request Form and send with specimen. Store and ship at ambient temperatures. Ship Overnight express, Monday – Friday. University of Washington laboratory will accept Saturday deliveries.</p> <p>Stability: For MRD testing, optimal results are obtained if testing is performed within 48 hours of collection. Specimen must be received at testing laboratory within 5 days of collection.</p>
Sample Rejection:	Mislabeled or unlabeled specimen; specimen with incorrect anticoagulant; specimen not received in testing laboratory within five days of collection; frozen sample; specimen in gel separator tube; insufficient quantity.

Interpretive

Reference Range:	An interpretive report will be provided
Critical Values:	N/A
Limitations:	Clinical testing reserved for bone marrow aspirate from patients who are or may be eligible for research studies requiring MRD analysis.
Methodology:	Flow Cytometry
References:	UW Laboratory Test Guide (February 2023)
Updates:	<p>8/8/2017: Initial entry</p> <p>2/10/2023: Limiting test usage to preapproved research eligibility or enrollment requirements only, due to UWash Hematopathology Laboratory notification from September 2022. Updated specimen type to bone marrow only, based on current Children's Minnesota ordering guidance.</p>