

Molecular Hematology Testing

Explanation: For the RNA assays indicated below, the minimum volume will increase from 4ml to 8ml on peripheral blood and will increase from 1ml to 2ml on bone marrow on those indicated. The reason for this change is to ensure there is enough sample for two separate extractions, in the event there is an extraction run failure. The amount of sample used is dependent on the white blood cell count. For those samples nearing the current minimum volume, the lab is struggling to achieving two extractions.

Mayo Test ID	Mayo Test Name	Current Requested Minimum Volume	New Requested Minimum Volume
BA190	BCR/ABL1, p190, mRNA Detection, Reverse Transcription-PCR (RT-PCR), Quantitative, Monitoring Assay, Varies	Peripheral blood: 4 mL	Peripheral blood: 8 mL
BADX	BCR/ABL1, Qualitative, Diagnostic Assay, Varies	Peripheral blood: 4 mL	Peripheral blood: 8 mL
BAKDM	BCR/ABL1, Tyrosine Kinase Inhibitor Resistance, Kinase Domain Mutation Screen, Sanger Sequencing, Varies	Peripheral blood: 4 mL	Peripheral blood: 8 mL
BCRFX	BCR/ABL1 Qualitative Diagnostic Assay with Reflex to BCR/ABL1 p190 Quantitative Assay or BCR/ABL1 p210 Quantitative Assay, Varies	Peripheral blood: 4 mL Bone Marrow: 1ml	Peripheral blood: 8 mL Bone Marrow: 2ml
EXHR	Hematologic Disorders, DNA and RNA Extract and Hold, Varies	Peripheral blood: 4 mL	Peripheral blood: 8 mL
IN16Q	CBFB-MYH11 Inversion(16), Quantitative Detection and Minimal Disease Risk Monitoring, qRT-PCR, Varies	Peripheral blood: 4 mL	Peripheral blood: 8 mL
JAKXB	JAK2 Exon 12 and Other Non-V617F Mutation Detection, Blood	Peripheral blood: 4 mL	Peripheral blood: 8 mL
NPM1Q	Nucleophosmin (NPM1) Mutation Analysis, Varies	Peripheral blood: 4 mL	Peripheral blood: 8 mL
PMLR	PML/RARA Quantitative, PCR, Varies	Peripheral blood: 4 mL	Peripheral blood: 8 mL
PVJAK	Polycythemia Vera, JAK2 V617F with Reflex to JAK2 Exon 12-15, Sequencing for Erythrocytosis, Varies	Peripheral blood: 4 mL	Peripheral blood: 8 mL
T821Q	RUNX1-RUNX1T1 Translocation (8;21), Minimal Residual Disease Monitoring, Quantitative, Varies	Peripheral blood: 4 mL	Peripheral blood: 8 mL

Questions

Contact Connie Penz, Laboratory Technologist Resource Coordinator at 800-533-1710.