

# SPECIMEN REQUIREMENTS & HANDLING PROCEDURES

The quality of laboratory results is highly dependent upon proper specimen collection and handling. Listed below are specimen requirements and handling procedures for tests performed by Neogenomics Laboratories

Specimen Type	Cytogenetics	FISH	Flow Cytometry	Bone Marrow Morphology	IHC	Molecular	Storage
Bone Marrow Aspirate	Sodium Heparin 1-2 ML (Green Top)	Sodium Heparin 1-2 ML (Green Top) EDTA OK if Sodium Heparin is not available	EDTA 1mL (Purple Top) Provide CBC Sodium Heparin OK if EDTA is not available	EDTA with 5-10 smears/slides Sodium Heparin OK if EDTA is not available	N/A	EDTA 1mL (Purple Top)	Refrigerate and use cool pack during transport. Overnight delivery or courier pickup
Peripheral Blood	Sodium Heparin 2-5 ML (Green Top) Provide CBC	Sodium Heparin 2-5 ML (Green Top) EDTA OK if Sodium Heparin is not available	EDTA 1mL (Purple Top) Provide CBC Sodium Heparin OK if EDTA is not available	EDTA with 5-10 smears/slides Sodium Heparin OK if EDTA is not available	N/A	EDTA 2-5mL (Purple Top)	Refrigerate and use cool pack during transport. Overnight delivery or courier pickup
Bone Marrow Core Biopsy and/or Aspirate Clot (10% NBF)	N/A	N/A	N/A	1-2 cm core (length) 10x formalin to specimen volume	Clot and Core sent in separate formalin containers	N/A	Refrigerate and use cool pack during transport. Overnight delivery or courier pickup
Fresh Bone Marrow Core Biopsy	1-2 cm core (length) Tissue in RPMI	1-2 cm core (length) Tissue in RPMI	1-2 cm core (length) Tissue in RPMI	N/A	1-2 cm core (length) Tissue in RPMI	EDTA 2mL (Purple Top)	Refrigerate and use cool pack during transport. Overnight delivery or courier pickup
Fresh/Unfixed Tissue	Tissue in RPMI Two Pieces Minimum 0.2cm <sup>3</sup>	Tissue in RPMI Two Pieces Minimum 0.2cm <sup>3</sup>	Tissue in RPMI	N/A	N/A	Tissue in RPMI Two pieces minimum 0.2cm <sup>3</sup>	Refrigerate and use cool pack during transport. Overnight delivery or courier pickup
Fluids	Equal part RPMI to specimen volume 50ml Except for CSF no dilution 2-3mL	Equal part RPMI to specimen volume 50ml Except for CSF no dilution 2-3mL	Equal part RPMI to specimen volume 50mL Except for CSF no dilution 2-3mL	N/A	N/A	N/A	Refrigerate and use cool pack during transport. Overnight delivery or courier pickup
Paraffin Block or Cut Slide	N/A	Suitable only for select assays For submitted slides: 4 micron sections w/ one H&E	N/A	N/A	<b>Superfrost™ Plus Slide</b> 3-4 micron thick tissue section No Additives in Waterbath or formalin-fixed paraffin-embedded tissue block	Suitable only for assays	Refrigerate and use cool pack during transport. Overnight delivery or courier pickup
Voided Urine	N/A	50mL with supplied Fixative Tablet	N/A	N/A	N/A	N/A	Refrigerate and use cool pack during transport. Overnight delivery or courier pickup