

The quality of laboratory results are highly dependent upon proper specimen collection and handling procedures. Listed below are specimen requirements and handling procedures for tests processed by Clariant Diagnostic Services. All samples MUST be labeled with patient name and date of collection.

Specimen Type	IHC	DNA Flow	FISH	Flow Cytometry Immunophenotyping*	PCR or RT-PCR	Cytogenetics/A-CGH	Circulating Tumor Cells	Storage/Transport
Formalin Fixed Paraffin Embedded Tissue Blocks	0.2 cm ³ piece of tissue	0.2 cm ³ piece of tissue (Minimum of 1 million cells required)	0.2 cm ³ piece of tissue	Not Applicable	0.2 cm ³ piece of tissue	Not Applicable	Not Applicable	Room Temperature
Formalin Fixed Paraffin Embedded Unstained Slides	4 micron thickness, 2 slides per marker BM: 3 micron thickness, 2 slides per marker	Not Applicable	4 slides, 4 micron thickness	Not Applicable	Minimum of 5 slides, 7 micron thickness	Not Applicable	Not Applicable	Room Temperature
Fresh Tissue Biopsy**	Not Applicable	Tissue Media ¹	Tissue Media ¹	Tissue Media ¹	Tissue Media ¹ (T&B Cell Gene Rearrangements)	Tissue Media ¹	Not Applicable	Room Temperature Use cold pack for transport ²
Peripheral Blood	Not Applicable	Not Applicable	Green⁴ Top Tube 5-10 mL	Green⁴ and/or Lavender/Purple⁵ Top Tube 5-10 mL	Lavender/Purple⁵ Top Tube 5-10 mL (15 mL) ³	Green⁴ Top Tube 5-10 mL	CellSave [®] tube only (10 mL)	Room Temperature Use cold pack for transport ²
Bone Marrow Core/Clot	Formalin Fixed Tissue	In Formalin	Tissue Media ¹	Not Applicable	Formalin Fixed Tissue	Tissue Media ¹	Not Applicable	Room Temperature Use cold pack for transport ²
Bone Marrow Aspirate ***	Not Applicable	Not Applicable	Green⁴ Top Tube 1-2 mL	Green⁴ or Lavender/Purple⁵ Top Tube 1-2 mL	Lavender/Purple⁵ Top Tube 1-2 mL (5-7 mL) ³	Green⁴ Top Tube 1-2 mL	Not Applicable	Room Temperature Use cold pack for transport ²
Malignant Fluids	Collection Pouch ³ 50-100 mL	Collection Pouch ³ 50-100 mL	Collection Pouch ³ 50-100 mL	Collection Pouch ³ 50-100 mL	Collection Pouch ³ 50-100 mL	Collection Pouch ³ 50-100 mL	Not Applicable	Room Temperature Use cold pack for transport ²
Fine Needle Aspirate (FNA)	Tissue Media ¹ 10 pieces preferred (minimum of 2 pieces-0.2 cm ³ in aggregate)	Tissue Media ¹ 10 pieces preferred (minimum of 2 pieces-0.2 cm ³ in aggregate)	Tissue Media ¹ 10 pieces preferred (minimum of 2 pieces-0.2 cm ³ in aggregate)	Tissue Media ¹ 10 pieces preferred (minimum of 2 pieces-0.2 cm ³ in aggregate)	Tissue Media ¹ 10 pieces preferred (minimum of 2 pieces-0.2 cm ³ in aggregate)	Tissue Media ¹ 10 pieces preferred (minimum of 2 pieces-0.2 cm ³ in aggregate)	Not Applicable	Room Temperature Use cold pack for transport
Cerebral Spinal Fluid (CSF)	Not Applicable	Not Applicable	Sterile Tube (2-3 mL)	Sterile Tube (2-3 mL)	Sterile Tube (2-3 mL)	Not Applicable	Not Applicable	Room Temperature Use cold pack for transport ² .
Urine	Not Applicable	Not Applicable	UroCyte™ Collection Kit. (33-60 mLs)****	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Use cold pack for transport ² .

Diagnostic Consultation: When requesting a diagnostic consultation, please provide the H&E of the fixed specimen along with a fixed paraffin block, which may be required by the Clariant pathologists for complete immunohistochemical analysis.

Transportation: Place specimens in a Clariant Universal Shipping kit. Slides should be enclosed in a plastic slide mailer. Enclose a completed test requisition form. Send specimens via Federal Express "Priority Overnight" using pre-printed airbills supplied by Clariant. **Please call Client Services at 888.443.3311 to schedule a pick-up.**

Note: Universal shipping kits and pre-printed Federal Express airbills may be obtained from Client Services.

¹ **Caution:** Do Not Use RPMI if it is cloudy, yellow, or beyond expiration date.

² Cold pack should not be placed in direct contact with the specimen during shipping (cold packs are not required for tissue fixed in formalin).

³ Cells will be processed into a cell block for IHC staining.

⁴ **Green** Top Tube = Sodium Heparin

⁵ **Lavender/Purple** Top Tube = EDTA

Breast Marker Studies Fixation (CAP/ASCO Requirement)	
Cold Ischemic time ≤ 1 hour:	<input type="checkbox"/> Yes <input type="checkbox"/> No
10% neutral buffered formalin:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown
HER2 Fixation duration >6 and <48 hours:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown
ER/PR Fixation duration >6 and <72 hours*:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown
* If ER/PR/HER2 is ordered on same block, proper fixation is 6-48 hours. If ER/PR is ordered alone proper fixation is 6-72 hours.	

* For Flow Immunophenotype, please prepare a smear and send CBC results.

** For Bone Marrow morphology, please provide fresh air-dried asperate smears, for evaluation.

*** Provide bone marrow aspirate smears and/or stained slides in sealed containers with no exposure to formalin fumes.

**** See ThinPrep[®] UroCyte for more information.