

## DIAGNOSTIC SERVICES SPECIMEN REQUIREMENTS & HANDLING PROCEDURES

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	Flow Cytometry DNA	FISH	Flow Cytometry Immunophenotype*	Molecular Oncology PCR**	Cytogenetics/CGH	Storage
<b>Fixed Paraffin Block</b>	(0.2 cm cube)	(0.2 cm cube) (Minimum of 1 million cells required)	(0.2 cm cube)	Not Applicable	(0.2 cm cube)	Not Applicable	Room temp.
<b>Malignant Fluids</b>	Collection Pouch <sup>5</sup> 50-100 mL	Collection Pouch <sup>5</sup> 50-100ml	Collection Pouch <sup>5</sup> 50-100ml	Collection Pouch 50-100 mL	Collection Pouch 50-100 mL	Collection Pouch 50-100 mL	Room temp. Use cold pack for transport <sup>2</sup>
<b>Peripheral Blood</b>	Not Applicable	Not Applicable	<b>Green<sup>6</sup></b> Top 5-10 mL	<b>Green<sup>6</sup></b> and/or <b>Lavender<sup>7</sup></b> Top. 5-10 mL	<b>Lavender<sup>7</sup></b> Top 5-10 mL (15 mL) <sup>3</sup>	<b>Green<sup>6</sup></b> Top 5-10 mL	Room temp. Use cold pack for transport <sup>2</sup>
<b>Fresh Tissue Biopsy ***</b>	10% Formalin or smear	Scraping in Alcohol or 10% Neutral Buffered Formalin	10% Formalin or smear	Tissue Media <sup>1</sup>	Tissue Media <sup>1</sup> or RNA Fixative or 10% Neutral Buffered <sup>8</sup>	Tissue Media <sup>1</sup>	Room temp. Use cold pack for transport <sup>2</sup>
<b>Bone Marrow Aspirate ****</b>	10% Formalin	Not Applicable	<b>Green<sup>6</sup></b> Top 2-3 mL	<b>Green<sup>6</sup></b> or <b>Lavender<sup>7</sup></b> Top 2-3 mL	<b>Lavender<sup>7</sup></b> Top 2-3 mL (5-7 mL) <sup>3</sup>	<b>Green<sup>6</sup></b> Top 2-3 mL	Room temp. Use cold pack for transport <sup>2</sup>
<b>Fine Needle Aspirate (FNA)</b>	Tissue Media <sup>1</sup> 10 pieces preferred (minimum of 2 pieces) (0.2 cm cube) <sup>4</sup>	Tissue Media <sup>1</sup> 10 pieces preferred (minimum of 2 pieces) (0.2 cm cube)	Tissue Media <sup>1</sup> 10 pieces preferred (minimum of 2 pieces) (0.2 cm cube)	Tissue Media <sup>1</sup> 10 pieces preferred (minimum of 2 pieces) (0.2 cm cube)	Tissue Media <sup>1</sup> Two pieces (0.2 cm cube)	Tissue Media <sup>1</sup> Two pieces (0.2 cm cube)	Refrigerated Use cold pack for transport <sup>2</sup>
<b>Urine</b>	Not Applicable	Not Applicable	UroCyte™ Collection Kit 33cc-60cc See ThinPrep® UroCyte™ Kit for more information	Not Applicable	Not Applicable	Not Applicable	Use cold pack for transport <sup>2</sup> . See ThinPrep UroCyte for more information

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

<sup>1</sup> **Caution:** Do Not Use Tissue Media if it is cloudy, yellow, or beyond expiration date.

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

<sup>3</sup> Bilateral, per slide

<sup>4</sup> Tissue will be processed prior to IHC staining.

<sup>5</sup> Cells will be processed into a cell block for IHC staining.

<sup>6</sup> **Green** Top = Sodium Heparin

<sup>7</sup> **Lavender** Top = EDTA

<sup>8</sup> Some PCR may not be available for Tissue Fixed in 10% NBF

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

\*\* For Microsatellite Instability (MSI), please provide "purple top tube" in addition to fixed tissue as described in the IHC section.

\*\*\* For Bone Marrow morphology, please provide fresh air-dried smears.

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