

Pathology Specimen Requirements

Quick Reference Guide

SPECIMEN TYPE	FLOW CYTOMETRY	CYTOGENETICS	FISH	MOLECULAR	NGS	IHC	STORAGE & TRANSPORTATION
Peripheral Blood	● 3 mL in sodium heparin (green top) preferred, or 3 mL in EDTA (purple top)	● 5 mL in sodium heparin (green top)	● 3 mL in sodium heparin (green top) preferred, or 3 mL in EDTA (purple top)	● 5-10 mL EDTA tube (purple top) preferred; ACD (yellow top) acceptable	● 3-4 mL in EDTA tube (purple top) <i>For Lumera™ Comprehensive and Xpanded, refer to Specimen Collection & Shipping Instructions on website under Resources</i>	N/A	Ship specimen same day (whenever possible) with refrigerated (not frozen) cold pack
Bone Marrow Aspirate	● 1-2 mL in sodium heparin (green top) preferred, or 1-2 mL in EDTA (purple top)	● 2-3 mL in sodium heparin (green top). When sending a BM core biopsy, please include a 5mL peripheral blood specimen in sodium heparin.	● 2-3 mL in sodium heparin (green top) preferred, or 1-2 mL in EDTA (purple top)	● 1-2 mL in EDTA tube (purple top) preferred; ACD (yellow top) acceptable	● 3-4 mL in EDTA tube (purple top) <i>For Lumera™ Comprehensive and Xpanded, refer to Specimen Collection & Shipping Instructions on website under Resources</i>	N/A	Ship specimen same day (whenever possible) with refrigerated (not frozen) cold pack
Fresh Tissue	Multiple 2-3 mm pieces of tissue in RPMI transport media (optimum RPMI to tissue ratio is 15:1; multiple vials are acceptable)	Multiple 2-3 mm pieces of tissue in RPMI transport media (optimum RPMI to tissue ratio is 15:1; multiple vials are acceptable)	Multiple 2-3 mm pieces of tissue in RPMI transport media (optimum RPMI to tissue ratio is 15:1; multiple vials are acceptable)	Minimum of 250 mg tissue in RPMI transport media	N/A	N/A	Ship specimen same day (whenever possible) with refrigerated (not frozen) cold pack
Body Fluids	Mix 1:1 in RPMI transport media	Mix 1:1 in RPMI transport media	N/A	N/A	N/A	N/A	Ship specimen same day (whenever possible) with refrigerated (not frozen) cold pack
PNH Profile	● 3 mL peripheral blood in EDTA (purple top) preferred, should be processed within 24 hours	N/A	N/A	N/A	N/A	N/A	Ship specimen same day (whenever possible) with refrigerated (not frozen) cold pack
Cord Blood	N/A	2-5 mL in sodium heparin (green top)	N/A	N/A	N/A	N/A	Ship specimen same day (whenever possible) with refrigerated (not frozen) cold pack
Formalin-Fixed Paraffin-Embedded Tissue	N/A	N/A	Minimum 0.2 x 0.2 x 0.2 cm tissue; non-decalcified tissue only (FISH only)	1 H&E slide and 6-8 unstained slides, 5-7 microns of BM clot or tissue fixed with 10% NBF fixative. Please circle tumor for microdissection. Alternatively, the FFPE block of the BM clot can be sent for sectioning in our lab.	Minimum of 11 unstained slides at 10 microns thickness <i>For Lumera™ Comprehensive and Xpanded, refer to Specimen Collection & Shipping Instructions on website under Resources</i>	1 H&E slide with its corresponding paraffin block (10% neutral buffered formalin) - preferred	Ship specimen same day (whenever possible) with refrigerated (not frozen) cold pack
Voided Urine or Bladder Wash (Bladder Cancer FISH)	N/A	N/A	Minimum of 33 mL voided urine or bladder washing mixed 2:1 with preservative (Preservcyt® or Carbowax™)	N/A	N/A	N/A	Sample should be stored in refrigerator (4° C) until it is packaged for transport and sent for processing within 24 hours of collection. Sample should be shipped with refrigerated (not frozen) cold packs. Urine samples should not be shipped or stored at temperatures above 25° C and should be processed within 48 hours of collection.

Specimen Requirements

Include the minimum specimen requirements necessary for testing. Test-specific requirements may vary. Please refer to online test directory at csilaboratories.com for detailed specimen requirements for individual tests. Be sure to:

- Label all tubes with at least 2 unique patient identifiers. Slides require 1 patient identifier. Sample patient identifiers include name, DOB, specimen ID # or medical record #.
- Close all tubes and canisters tightly.
- Completely fill out and enclose paperwork.

Additional Information for Optimal Analysis

- Bone marrow smears should not be exposed to formalin vapors from open core/clot biopsy jars.
- Bone marrow smears should be completely air-dried (1-2 hours) prior to packaging in slide holders.
- Please include a copy of patient's most recent CBC and clinical history.
- In the event of a dry-tap, please send a second core specimen in RPMI transport media and 10 ml of peripheral blood in sodium heparin for other testing.

Specimen Delay

Specimens can be delayed or rejected due to:

- Labeling without required patient identifiers.
- Specimen received without requisition.
- Mismatch between data on requisition and on the specimen sent.
- Tissue block is not processed correctly and reprocessing is required.

Shipping Information

- Ship specimens with one refrigerated (not frozen) gel pack in the shipper kit. If gel pack is frozen, run water over it until it is cold but not frozen.
- To request test requisitions and shipping materials, or to request a courier or specimen pickup, please contact Client Service at 800-459-1185.

UNACCEPTABLE SPECIMENS: Category A infectious substances as defined by IATA (Dangerous Goods Regulations 3.6.2.1.1 Definition – Infectious Substances), including, but not limited to, specimens that may contain Creutzfeldt-Jakob Disease.

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As a brand under Fulgent Genetics, Fulgent Oncology provides personalized cancer diagnostics services through CSI Laboratories and Inform Diagnostics, Fulgent Genetics subsidiaries. Together, our labs have helped pathologists and oncologists accurately diagnose and treat their patients for over 25 years.



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800.459.1185
www.fulgentoncology.com
customerservice@fulgentoncology.com