Molecular Oncology

Hematological NGS and PCR

Test Type	Specimen(s)	Volume (Min. Volume)	Anticoag / Medium Preferred (Accepted)	Storage Temp	Stability Period	Shipping Conditions	Shipping Recommendations	Special Considerations/ Notes
NGS Gene Rearrangement - IGVH Somatic Hypermutation	Whole Blood	5mL (min 3mL)	EDTA (NaHep)	2°C to 8°C	30 Days	REFRIGERATED	Protect from extreme temperature with ice pack. Separate ice pack from specimen.	N/A
	Bone Marrow Aspirate	3mL (min 1mL)	EDTA (NaHep)	2°C to 8°C	30 Days	REFRIGERATED	Protect from extreme temperature with ice pack. Separate ice pack from specimen.	Frozen bone marrow samples are NOT accepted.
	Fresh Tissue	5 mm^3	Sterile container with 2-4 mL RPMI transport media	2°C to 8°C	96 Hours	REFRIGERATED	Protect from extreme temperature with ice pack. Separate ice pack from specimen.	N/A
	Extracted DNA	50µl at 50ng/µl	N/A	2°C to 8°C	96 Hours	REFRIGERATED	Protect from extreme temperature with ice pack. Separate ice pack from specimen.	Isolation of nucleic acids for clinical testing must occur in a CLIA-certified laboratory or a laboratory meeting equivalent requirements. Concentration and volume must be provided for all samples.
				≤ -15°C	Long Term	FROZEN	Ship samples on dry ice. Separate dry ice from specimens.	

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Test Type	Specimen(s)	Volume (Min. Volume)	Anticoag / Medium Preferred (Accepted)	Storage Temp	Stability Period	Shipping Conditions	Shipping Recommendations	Special Considerations/ Notes
NGS Gene Rearrangement - B Cell (IGH), T Cell (TCR)	Whole Blood	5mL (min 3mL)	EDTA (NaHep)	2°C to 8°C	30 Days	REFRIGERATED	Protect from extreme temperature with ice pack. Separate ice pack from specimen.	N/A
	Bone Marrow Aspirate	3mL (min 1mL)	EDTA (NaHep)	2°C to 8°C	30 Days	REFRIGERATED	Protect from extreme temperature with ice pack. Separate ice pack from specimen.	Frozen bone marrow samples are NOT accepted.
	Fresh Tissue	5 mm^3	Sterile container with 2-4 mL RPMI transport media	2-8°C	96 Hours	REFRIGERATED	Protect from extreme temperature with ice pack. Separate ice pack from specimen.	N/A
	Paraffin Embedded Tissue	FFPE Block 5 slides or scrolls (min 5-10 µM)	10% NBF Fixed	15°C to 25°C	Indefinite	REFRIGERATED	Protect from extreme temperature with ice pack. Separate ice pack from specimen.	FFPE block preferred; unbaked slides acceptable.
	Extracted DNA	50µl at 50ng/µl	N/A	2°C to 8°C	96 Hours	REFRIGERATED	Protect from extreme temperature with ice pack. Separate ice pack from specimen.	Isolation of nucleic acids for clinical testing must occur in a CLIA-certified laboratory or a laboratory meeting equivalent requirements. Concentration and volume must be provided for all samples.
				≤ -15°C	Long Term	FROZEN	Ship samples on dry ice. Separate dry ice from specimens.	

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Hematological NGS

Test Type	Specimen(s)	Volume (Min. Volume)	Anticoag / Medium Preferred (Accepted)	Storage Temp	Stability Period	Shipping Conditions	Shipping Recommendations	Special Considerations/ Notes
Myeloid NGS Assays - Myeloid Extended Panel, AML Panel, MYD88, TP53 **Myeloid PCR Assays - JAK2 V617F** **Fragment Analysis Assays - FLT3**	Whole Blood	5mL (min 3mL)	EDTA (NaHep)	2°C to 8°C	96 Hours	REFRIGERATED	Protect from extreme temperature with ice pack. Separate ice pack from specimen.	N/A
	Bone Marrow Aspirate	3mL (min 1mL)	EDTA (NaHep)	2°C to 8°C	96 Hours	REFRIGERATED	Protect from extreme temperature with ice pack. Separate ice pack from specimen.	Frozen blood and bone marrow samples are NOT accepted.
	Extracted DNA	50µl at 50ng/µl	N/A	2°C to 8°C	96 Hours	REFRIGERATED	Protect from extreme temperature with ice pack. Separate ice pack from specimen.	Isolation of nucleic acids for clinical testing must occur in a CLIA-certified laboratory or a laboratory meeting equivalent requirements. Concentration and volume must be provided for all samples.
				≤ -15°C	Long Term	FROZEN	Ship samples on dry ice. Separate dry ice from specimens.	
BCR/ABL major p210 and minor p190 transcripts-qRT PCR, MRD	Whole blood	10 mL (min 5mL)	EDTA (NaHep)	2°C to 8°C	48 Hours	REFRIGERATED	Protect from extreme temperature with ice pack. Separate ice pack from specimen	Frozen blood samples are NOT accepted.
	Bone Marrow Aspirate	3 mL (min 1 mL)	EDTA (NaHep)	2°C to 8°C	48 Hours	REFRIGERATED	Protect from extreme temperature with ice pack. Separate ice pack from specimen.	Frozen bone marrow samples are NOT accepted.

Specimen Recommendations

Molecular Oncology

Hematological NGS

Test Type	Specimen(s)	Volume (Min. Volume)	Anticoag / Medium Preferred (Accepted)	Storage Temp	Stability Period	Shipping Conditions	Shipping Recommendations	Special Considerations/ Notes
BCR/ABL major p210 and minor p190 transcripts-qRT PCR, MRD	RNA	30µl at 200 ng/µl	N/A	≤ -15°C	Long Term	FROZEN	Ship samples on dry ice. Separate dry ice from specimen.	Samples should be extracted within 5 days of collection. Isolation of nucleic acids for clinical testing must occur in a CLIA-certified laboratory or a laboratory meeting equivalent requirements. Concentration and volume must be provided for all samples.

Solid Tumor NGS

Solid Tumor NGS - KRAS, BRAF, NRAS, TP53, Colon Panel (incudes KRAS, NRAS, BRAF)	Paraffin Embedded Tissue	FFPE Block 5 slides or scrolls (min 5-10 µM)	10% NBF Fixed	15°C to 25°C	Indefinite	AMBIENT	Use a refrigerated (NOT FROZEN) gel pack in the shipment to protect from extreme temperatures. Separate gel pack from specimen.	FFPE block preferred; unbaked slides acceptable.

FDA Approved Assays

EGFR - therascreen® - PCR	Paraffin Embedded Tissue	FFPE Block 5 slides or scrolls (min 5-10 µM)	10% NBF Fixed	15°C to 25°C	Indefinite	AMBIENT	Use a refrigerated (NOT FROZEN) gel pack in the shipment to protect from extreme temperatures. Separate gel pack from specimen.	FFPE block preferred; unbaked slides acceptable.

Flow Cytometry

Test Type	Specimen(s)	Volume (Min. Volume)	Anticoag / Medium Preferred (Accepted)	Storage Temp	Stability Period	Shipping Conditions	Shipping Recommendations	Special Considerations/ Notes
General Flow	Whole Blood	4 mL (min 0.5 mL with 10^7 cells)	NaHep (EDTA)	2°C to 8°C	48 Hours	REFRIGERATED	Use a refrigerated (NOT FROZEN) gel pack in the shipment to protect from extreme temperatures. Separate gel pack from specimen	N/A
	Bone Marrow Aspirate	2 mL (min 0.5 mL with 10^7 cells)	NaHep (EDTA)	2°C to 8°C	48 Hours	REFRIGERATED	Use a refrigerated (NOT FROZEN) gel pack in the shipment to protect from extreme temperatures. Separate gel pack from specimen	N/A
	Bone Marrow Core Biopsy	2 cm (min 1 cm)	Sterile container with 2-4 mL RPMI transport media or sterile saline	2°C to 8°C	48 Hours	REFRIGERATED	Use a refrigerated (NOT FROZEN) gel pack in the shipment to protect from extreme temperatures. Separate gel pack from specimen	N/A
	Fresh Tissue	5 mm^3	Sterile container with 2-4 mL RPMI transport media or sterile saline	2°C to 8°C	48 Hours	REFRIGERATED	Use a refrigerated (NOT FROZEN) gel pack in the shipment to protect from extreme temperatures. Separate gel pack from specimen	N/A
	Fine Needle Aspirate (FNA)	4 mL (min 0.5 mL with 10^7 cells)	Sterile container with 2-4 mL RPMI transport media or sterile saline	2°C to 8°C	48 Hours	REFRIGERATED	Use a refrigerated (NOT FROZEN) gel pack in the shipment to protect from extreme temperatures. Separate gel pack from specimen	N/A

Flow Cytometry

Test Type	Specimen(s)	Volume (Min. Volume)	Anticoag / Medium Preferred (Accepted)	Storage Temp	Stability Period	Shipping Conditions	Shipping Recommendations	Special Considerations/ Notes
General Flow	Fluids: CSF, pleural, synovial, pericardial fluids, BAL	4 mL (min 0.5 mL with 10^7 cells)	Sterile container with 2-4 mL RPMI transport media or sterile saline	2°C to 8°C	48 Hours	REFRIGERATED	Use a refrigerated (NOT FROZEN) gel pack in the shipment to protect from extreme temperatures. Separate gel pack from specimen	N/A
Immunodeficiency	Bronchoalveolar lavage	10 mL (min 5 mL)	Sterile container with 2-4 mL RPMI transport media or sterile saline	2°C to 8°C	48 Hours	REFRIGERATED	Use a refrigerated (NOT FROZEN) gel pack in the shipment to protect from extreme temperatures. Separate gel pack from specimen	N/A
PNH	PNH whole blood	5 mL (min 0.5 mL)	NaHep (EDTA)	2°C to 8°C	48 Hours	REFRIGERATED	Use a refrigerated (NOT FROZEN) gel pack in the shipment to protect from extreme temperatures. Separate gel pack from specimen	N/A

Pathology and Immunohistochemistry

Test Type	Specimen(s)	Volume (Min. Volume)	Anticoag / Medium Preferred (Accepted)	Storage Temp	Stability Period	Shipping Conditions	Shipping Recommendations	Special Considerations/ Notes
Bone Marrow Pathology Evaluations require ALL of the following specimen types: Bone Marrow Core and Bone Marrow Clot (pre-prepared or fresh). The following specimen types are HIGHLY recommeded: Fresh Bone Marrow Aspirate, Bone Marrow Aspirate Smears (may be provided pre-prepared or can be created at MPLN), Peripheral Blood Smears (fresh peripheral blood may be provided as an alternative). **General requirements for each specimen type listed below.**								
Pathology Evaluation and General IHC	Fresh Bone Marrow Aspirate	4 mL (0.5 mL)	EDTA or NaHep	15°C to 25°C	24 Hours	AMBIENT	Use a refrigerated (NOT FROZEN) gel pack in the shipment to protect from extreme temperatures. Separate gel pack from specimen.	All attempt will be made to create a smear with aspirate samples >24 hours. Samples analyzed for MDS cannot be accurately assessed past 24 hours.
	Bone Marrow Aspirate Smear (pre-prepared)	4-6 slides (min 1 slide)	Methanol fixed (Air dried)	15°C to 25°C	Indefinite	AMBIENT	Use a refrigerated (NOT FROZEN) gel pack in the shipment to protect from extreme temperatures. Separate gel pack from specimen.	N/A
	Fresh Peripheral Blood	4 mL (0.5 mL)	EDTA or NaHep	15°C to 25°C	24 Hours	AMBIENT	Use a refrigerated (NOT FROZEN) gel pack in the shipment to protect from extreme temperatures. Separate gel pack from specimen.	All attempt will be made to create a smear with aspirate samples >24 hours. Samples analyzed for MDS cannot be accurately assessed past 24 hours.
	Peripheral Blood Smear (pre-prepared)	4-6 slides (min 1 slide)	Methanol fixed (Air dried)	15°C to 25°C	Indefinite	AMBIENT	Use a refrigerated (NOT FROZEN) gel pack in the shipment to protect from extreme temperatures. Separate gel pack from specimen.	N/A

Pathology and Immunohistochemistry

Test Type	Specimen(s)	Volume (Min. Volume)	Anticoag / Medium Preferred (Accepted)	Storage Temp	Stability Period	Shipping Conditions	Shipping Recommendations	Special Considerations/ Notes
Pathology Evaluation and General IHC	Bone Marrow Core Biopsy – wet tissue	1 cm; fixative should be at a 20:1 fixative to tissue ratio	10% neutral buffered formalin (NBF) or B-Plus fixative	15°C to 25°C	Min 6 Hours - ≤ 72 Hours preferred, up to 168 Hours acceptable	AMBIENT	N/A	After fixation in 10% NBF, place tissue in 70% ethanol and store at 2-8°C. Samples will be stable up to 3 months in 70% ethanol.
	Bone Marrow Aspirate Clot – wet tissue	5 mm; fixative should be at a 20:1 fixative to tissue ratio	10% neutral buffered formalin (NBF) or B-Plus fixative	15°C to 25°C	Min 6 Hours - ≤ 72 Hours preferred, up to 168 Hours acceptable	AMBIENT	N/A	After fixation in 10% NBF, place tissue in 70% ethanol and store at 2-8°C. Samples will be stable up to 3 months in 70% ethanol.
	Formalin-fixed, Paraffin-Embedded (FFPE) Cores and Clots (pre-prepared)	4-6 slides; 3-5 µM on adhesion glass (min 1 slide **per stain**)	Formalin Fixed	15°C to 25°C	Indefinite	AMBIENT	Use a refrigerated (NOT FROZEN) gel pack in the shipment to protect from extreme temperatures. Separate gel pack from specimen.	Unbaked slides are preferred.
	Fresh Tissue Biopsies	Fixative should be at a 20:1 fixative to tissue ratio	10% neutral buffered formalin (NBF) for 6-72 hours (48 hours PREFERRED)	15°C to 25°C	≤ 72 Hours	AMBIENT	N/A	Specimens may be fixed in formalin for 6-72 hours by collection sites, then transferred to 70% ethanol and stored at 2-8°C for longer term storage if needed. This is NOT preferred. Samples must be tested 3 months after placing in ethanol.

Pathology and Immunohistochemistry

Test Type	Specimen(s)	Volume (Min. Volume)	Anticoag / Medium Preferred (Accepted)	Storage Temp	Stability Period	Shipping Conditions	Shipping Recommendations	Special Considerations/ Notes
Pathology Evaluation and General IHC	Fresh Tissue Resections	Fixative should be at a 20:1 fixative to tissue ratio	10% neutral buffered formalin (NBF) for 24-72 hours (72 hours PREFERRED)	15°C to 25°C	≤ 72 Hours	AMBIENT	N/A	Specimens may be fixed in formalin for 24-72 hours by collection sites, then transferred to 70% ethanol and stored at 2-8°C for longer term storage if needed. This is NOT preferred. Samples must be tested 3 months after placing in ethanol.
	Formalin-fixed Paraffin Embedded Tissue (FFPE blocks)	FFPE Block	Formalin Fixed	15°C to 25°C	Indefinite	AMBIENT	Use a refrigerated (NOT FROZEN) gel pack in the shipment to protect from extreme temperatures. Separate gel pack from specimen.	N/A
	Unstained slides	2 slides (3-5 µM) **per stain** (min 1 slide **per stain**)	Formalin Fixed	15°C to 25°C	Indefinite	AMBIENT	Use a refrigerated (NOT FROZEN) gel pack in the shipment to protect from extreme temperatures. Separate gel pack from specimen.	Positively charged glass slides required to prevent background staining and prevent tissue loss. Slides should be left unbaked.
	Stained slides	1 slide per stain	Formalin Fixed	15°C to 25°C	Indefinite	AMBIENT	N/A	N/A

Pathology and Immunohistochemistry

Test Type	Specimen(s)	Volume (Min. Volume)	Anticoag / Medium Preferred (Accepted)	Storage Temp	Stability Period	Shipping Conditions	Shipping Recommendations	Special Considerations/ Notes
FDA Approved Assays								
IHC Assays: Pathway HER2/*neu* (4B5), Estrogen Receptor (ER, SP1), Progesterone Receptor (PR, 1E2)	Fresh Tissue Biopsies and resections	Fixative should be at a 20:1 fixative to tissue ratio	10% neutral buffered formalin (NBF) for 6-72 hours (48-72 hours PREFERRED)	15°C to 25°C	≤ 72 hr	AMBIENT	N/A	Specimens should be immersed in fixative within one hour of the biopsy or resection. The time of removal of the tissue and the time of immersion of the tissue in fixative should be recorded and submitted to the laboratory. If blocks or slides are sent, total fixation time must be noted. FFPE block or fresh tissue preferred; unbaked slides acceptable.
	Paraffin Embedded Tissue	FFPE Block 2 slides (3-5 µM) **per stain** (1 slide **per stain** min)	10% NBF Fixed	15°C to 25°C	Indefinite	AMBIENT	Use a refrigerated (NOT FROZEN) gel pack in the shipment to protect from extreme temperatures. Separate gel pack from specimen.	

Cytogenetics and FISH

Test Type	Specimen(s)	Volume (Min. Volume)	Anticoag / Medium Preferred (Accepted)	Storage Temp	Stability Period	Shipping Conditions	Shipping Recommendations	Special Considerations/ Notes
Chromosome analysis	Peripheral Blood	5 mL	NaHep	15°C to 25°C	72 Hours	AMBIENT	Use a refrigerated (NOT FROZEN) gel pack in the shipment to protect from extreme temperatures. Separate gel pack from specimen. Do not freeze.	N/A
	Newborn Blood	1 mL	NaHep	15°C to 25°C	72 Hours	AMBIENT	Use a refrigerated (NOT FROZEN) gel pack in the shipment to protect from extreme temperatures. Separate gel pack from specimen. Do not freeze.	N/A
	Percutaneous Umbilical Blood	2 mL	NaHep	15°C to 25°C	72 Hours	AMBIENT	Use a refrigerated (NOT FROZEN) gel pack in the shipment to protect from extreme temperatures. Separate gel pack from specimen. Do not freeze.	N/A
	Bone Marrow Aspirate	3 mL	NaHep	15°C to 25°C	72 Hours	AMBIENT	Use a refrigerated (NOT FROZEN) gel pack in the shipment to protect from extreme temperatures. Separate gel pack from specimen. Do not freeze.	N/A

Specimen Recommendations

Cytogenetics and FISH

Test Type	Specimen(s)	Volume (Min. Volume)	Anticoag / Medium Preferred (Accepted)	Storage Temp	Stability Period	Shipping Conditions	Shipping Recommendations	Special Considerations/ Notes
Chromosome analysis	Bone Marrow Core	5 mm in ≥4 mL tissue culture	Transport media (RPMI) using 10 mL sterile transport tube	15°C to 25°C	72 Hours	AMBIENT	Use a refrigerated (NOT FROZEN) gel pack in the shipment to protect from extreme temperatures. Separate gel pack from specimen. Do not freeze. Extreme temperatures should be avoided.	N/A
	Lymph Node	10 mm in ≥4 mL tissue culture	Transport media (RPMI) using 10 mL sterile transport tube	15°C to 25°C	72 Hours	AMBIENT	Use a refrigerated (NOT FROZEN) gel pack in the shipment to protect from extreme temperatures. Separate gel pack from specimen. Do not freeze. Extreme temperatures should be avoided.	N/A
	Fixed Cytogenetically Prepared Cells	Pellet must be visible; sterile centrifuge tube	3:1, Methanol:Acetic Acid	-28°C to -15°C	Fixed cell pellets are stable for years.	FROZEN	Ship samples on dry ice. Separate dry ice from specimens.	N/A
Congenital chromosome analysis	Peripheral Blood	5 mL	NaHep	15°C to 25°C	72 Hours	AMBIENT	Use a refrigerated (NOT FROZEN) gel pack in the shipment to protect from extreme temperatures. Separate gel pack from specimen. Do not freeze.	N/A

Cytogenetics and FISH

Test Type	Specimen(s)	Volume (Min. Volume)	Anticoag / Medium Preferred (Accepted)	Storage Temp	Stability Period	Shipping Conditions	Shipping Recommendations	Special Considerations/ Notes
Fluorescence *in situ* hybridization (FISH) probes for hematological disorders	Whole Blood	5 mL	EDTA (NaHep)	15°C to 25°C	72 hr	AMBIENT	Use a refrigerated (NOT FROZEN) gel pack in the shipment to protect from extreme temperatures. Separate gel pack from specimen. Do not freeze.	All attempt wil be made to process and report whole blood submitted for FISH received outside of the 72-hr collection window. Samples tested outside of the 72-hr stability period will be reported as such.
	Bone Marrow Aspirate	3 mL	EDTA (NaHep)	15°C to 25°C	72 hr	AMBIENT	Use a refrigerated (NOT FROZEN) gel pack in the shipment to protect from extreme temperatures. Separate gel pack from specimen. Do not freeze.	Aspirate preferred for some heme malignancies such as CLL/SLL
Fluorescence in situ hybridization (FISH) probes for hematological disorders	FFPE Tissue	FFPE Block 3 slides (min 3-5 µM) per marker on adhesion glass	10% NBF (Tissues preserved in B+ fixative or decalcified are usually not suitable for FISH)	15°C to 25°C	Indefinite	AMBIENT	Use a refrigerated (NOT FROZEN) gel pack in the shipment to protect from extreme temperatures. Separate gel pack from specimen. Do not freeze.	N/A
FISH probes for solid tumors	Formalin-fixed Paraffin Embedded Tissue (FFPE blocks)	FFPE Block 3 slides (min 3-5 µM) per marker on adhesion glass	10% NBF (Tissues preserved in B5 fixative or decalcified are usually not suitable for FISH)	15°C to 25°C	Indefinite	AMBIENT	Use a refrigerated (NOT FROZEN) gel pack in the shipment to protect from extreme temperatures. Separate gel pack from specimen. Do not freeze.	Tumor sections cut 3-5 µm thick and mounted on positively charged organosilane coated (silanized) slides work well. Request several unstained sections (two for each probe) and one H&E stained slide

Cytogenetics and FISH

Test Type	Specimen(s)	Volume (Min. Volume)	Anticoag / Medium Preferred (Accepted)	Storage Temp	Stability Period	Shipping Conditions	Shipping Recommendations	Special Considerations/ Notes
Bladder Cancer FISH	Urine	Voided urine must be ≥ 33 mL. Mix voided urine with preservative at 2:1 ratio of urine to preservative for a total volume ≥ 50 mL.	PreservCyt® or Carbowax® solutions	2°C to 8°C	72 Hours	REFRIGERATED	Protect from extreme temperature with ice pack. Separate ice pack from specimen. Do not freeze.	N/A

Specimen Recommendations

Infectious Disease

Test Type	Specimen(s)	Volume (Min. Volume)	Anticoag / Medium Preferred (Accepted)	Storage Temp	Stability Period	Shipping Conditions	Shipping Recommendations	Special Considerations/ Notes
Chlamydia trachomatis, Neisseria gonorrhoeae	Cervical Cells	3mL	ThinPrep® or SurePath™	2°C to 30°C	21 Days	AMBIENT	N/A	N/A
	Cervical or Urethral Swab	One Swab	APTIMA Unisex Swab Specimen Collection	2°C to 30°C	60 Days	AMBIENT	N/A	N/A
	Urine	20-30mL	preservative-free urine collection cup	4°C	24 Hours	REFRIGERATED	N/A	Void first 10mL.
		2mL	APTIMA urine tube	15°C to 25°C	30 Days	AMBIENT	N/A	N/A
	Throat Swab	One Swab	Aptima Multitest Swab	15°C to 25°C	60 Days	AMBIENT	N/A	N/A
	Anal Swab	One Swab	Aptima Multitest Swab	4°C to 30°C	60 Days	AMBIENT	N/A	N/A
HPV high risk by Aptima	Cervical Cells	2 mL (min 1 mL)	ThinPrep® or SurePath™	15°C to 25°C	21 Days	AMBIENT	N/A	N/A
HPV genotyping	Cervical Cells	2 mL	ThinPrep® or SurePath™	15°C to 25°C	21 Days	AMBIENT	N/A	N/A

Infectious Disease

Test Type	Specimen(s)	Volume (Min. Volume)	Anticoag / Medium Preferred (Accepted)	Storage Temp	Stability Period	Shipping Conditions	Shipping Recommendations	Special Considerations/ Notes
Trichomonas Vaginalis	Cervical Cells	3 mL	ThinPrep® or SurePath™	2°C to 30°C	21 Days	AMBIENT	N/A	N/A
	Cervical or Urethral Swab	One swab	Aptima unisex swab specimen collection	2°C to 30°C	60 Days	AMBIENT	N/A	N/A
	Urine	20-30 mL	Preservative-free urine collection cup	4°C	24 Hours	REFRIGERATED	N/A	Void first 10 mL.
	Urine	2 mL	Aptima Urine Tube	15°C to 25°C	30 Days	AMBIENT	N/A	N/A
	Vaginal Swab	One swab	Aptima Multitest Swab	4°C to 30°C	60 Days	AMBIENT	N/A	N/A
	Anal Swab	One swab	Aptima Multitest Swab	4°C to 30°C	60 Days	AMBIENT	N/A	N/A
Herpes Simplex Type 1/2 qualitative by real-time PCR	HSV lesion	5 mm3	Viral Transport Media	4°C	96 Hours	REFRIGERATED	Protect from extreme temperature with ice pack. Separate ice pack from specimen.	N/A
	Whole Blood	2 mL	EDTA	4°C	96 Hours	REFRIGERATED	Protect from extreme temperature with ice pack. Separate ice pack from specimen.	N/A
	Fresh Tissue	5 mm^3	Sterile container with 2-4 mL transport medium	4°C	96 Hours	REFRIGERATED	Protect from extreme temperature with ice pack. Separate ice pack from specimen.	N/A
	Frozen Tissue			-20°C	Long Term	FROZEN	Ship samples on dry ice. Separate dry ice from specimens.	Freeze immediately after collection.

Specimen Recommendations

Infectious Disease

Test Type	Specimen(s)	Volume (Min. Volume)	Anticoag / Medium Preferred (Accepted)	Storage Temp	Stability Period	Shipping Conditions	Shipping Recommendations	Special Considerations/ Notes
Herpes Simplex Type 1/2 qualitative by real-time PCR	Swab (any anatomical site)	One Swab	Viral Transport Media	4°C	96 Hours	REFRIGERATED	Protect from extreme temperature with ice pack. Separate ice pack from specimen.	N/A
	CSF	2 mL (min 1mL)	Sterile Container	4°C	72 Hours	REFRIGERATED	Protect from extreme temperature with ice pack. Separate ice pack from specimen.	N/A
				-20°C	Long Term	FROZEN	Ship samples on dry ice. Separate dry ice from specimens.	Freeze within 4 hours after collection.
	Cervical Cells	2 mL (min 1 mL)	ThinPrep® or SurePath™	15°C to 25°C	21 Days	AMBIENT	N/A	N/A
SARS CoV2 by Aptima	Nasopharyngeal or Oropharyneal Swab	One Swab (min 2mL media required)	Viral Transport Medium (VTM)	2°C to 8°C	72 Hours	REFRIGERATED	N/A	Specimens must be individually bagged.