



# Laboratory Services

## Important Test Announcement

### REFERENCE LAB TESTING UPDATES

Effective January 13, 2026, the reference lab for the following tests will be changing. Refer to the below charts and our Laboratory Test Directory for complete collection information.

### ESTRADIOL, ULTRASENSITIVE

Test Code: **XESTRA**

Live Date: **1/13/2026**

	<b>New Test Estradiol, Ultrasensitive XESTRA Quest</b>	<b>Old Test Estradiol, Serum XEEST Mayo</b>
<b>Methodology</b>	Chromatography/Mass Spectrometry	Liquid Chromatography-Tandem Mass Spectrometry (LC-MS/MS)
<b>Performed</b>	Sunday through Friday	Monday through Saturday
<b>Turnaround Time</b>	6 days	4 days
<b>Specimen Required</b>	Red Tube, no gel	Red Tube, no gel
<b>Specimen Volume</b>	3 mL	3 mL
<b>Specimen Preparation</b>	Centrifuge within 2 hours, separate serum, and send refrigerated sample to the reference lab.	Centrifuge within 2 hours, separate serum, and send refrigerated sample to the reference lab.

<b>Storage/Transport/Temperature</b>	Refrigerated	Refrigerated
<b>Unacceptable Conditions</b>	Wrong collection tube, Collected in tube with gel separator, Grossly icteric	Wrong collection tube, Collected in tube with gel separator
<b>Stability</b>	Whole Blood: Room temperature 2 hours  Serum: Room temperature 24 hours  Serum: Refrigerated 7 days  Serum: Frozen 28 days	Whole Blood: Room temperature 2 hours  Serum: Room temperature 28 days  Serum: Refrigerated 28 days  Serum: Frozen 28 days

---

## PLASMA RENIN ACTIVITY

Test Code: **XRENI**

Live Date: **1/13/2026**

	<b>New Test Plasma Renin Activity XRENI Quest</b>	<b>Old Test Renin Activity XRENA Mayo</b>
<b>Methodology</b>	Chromatography/Mass Spectrometry	Liquid Chromatography-Tandem Mass Spectrometry (LC-MS/MS)
<b>Performed</b>	Daily	Monday through Friday
<b>Turnaround Time</b>	4 days	5 days
<b>Specimen Required</b>	Purple Tube, EDTA	Purple Tube, EDTA
<b>Specimen Volume</b>	3 mL	3 mL
<b>Specimen Preparation</b>	Centrifuge within 30 minutes. Refrigerate specimen during centrifugation and immediately transfer plasma to a plastic vial.	Centrifuge within 30 minutes. Refrigerate specimen during centrifugation and

		immediately transfer plasma to a plastic vial.
<b>Storage/Transport/Temperature</b>	Refrigerated	Frozen
<b>Unacceptable Conditions</b>	Gross hemolysis, Wrong collection tube, Thawed frozen specimen, Gross lipemia	Gross hemolysis, Wrong collection tube, Thawed frozen specimen
<b>Stability</b>	Whole Blood: Room temperature 30 minutes  Plasma: Room temperature 24 hours  Plasma: Refrigerated 24 hours  Plasma: Frozen 28 days	Whole Blood: Room temperature 30 minutes  Plasma: Frozen 14 days

.....

## 25-HYDROXYVITAMIN D (D2,D3)

Test Code: **X25HDV**

Live Date: **1/13/2026**

	<b>New Test</b> <b>25-Hydroxyvitamin D (D2,D3)</b> <b>X25HDV</b> <b>Quest</b>	<b>Old Test</b> <b>25 Hydroxyvitamin D2 and D3, Serum</b> <b>X25HDN</b> <b>Mayo</b>
<b>Methodology</b>	Chromatography/Mass Spectrometry	Liquid Chromatography-Tandem Mass Spectrometry (LC-MS/MS)
<b>Performed</b>	Monday through Saturday	Monday through Friday
<b>Turnaround Time</b>	2 days	1 week
<b>Specimen Required</b>	Red Tube, no gel  Gold Tube, SST	Red Tube, no gel  Gold Tube, SST

<b>Specimen Volume</b>	3 mL	3 mL
<b>Specimen Preparation</b>	Centrifuge within 2 hours, separate supernatant, and send room temp.	Centrifuge within 2 hours, separate supernatant, and send refrigerated serum.
<b>Storage/Transport/Temperature</b>	Room Temperature	Refrigerated
<b>Unacceptable Conditions</b>	Wrong collection tube, Gross hemolysis, Gross icterus, Gross lipemia	Wrong collection tube
<b>Stability</b>	<p>Whole Blood: Room temperature 2 hours</p> <p>Serum: Room temperature 21 days</p> <p>Serum: Refrigerated 21 days</p> <p>Serum: Frozen 21 days</p>	<p>Whole Blood: Room temperature 2 hours</p> <p>Serum: Room temperature 7 days</p> <p>Serum: Refrigerated 28 days</p> <p>Serum: Frozen 30 days</p>

---

## ALDOSTERONE

Test Code: **XALD**

Live Date: **1/13/2026**

	<b>New Test Aldosterone XALD Quest</b>	<b>Old Test Aldosterone, Serum XALDS Mayo</b>
<b>Methodology</b>	Chromatography/Mass Spectrometry	Liquid Chromatography-Tandem Mass Spectrometry (LC-MS/MS)
<b>Performed</b>	Monday through Saturday	Monday through Friday
<b>Turnaround Time</b>	5 days	5 days
<b>Specimen Required</b>	Red Tube, no gel	Red Tube, no gel

	Purple Tube, EDTA Green Tube, Lithium Heparin Green Tube, Sodium Heparin	Gold Tube, SST
<b>Specimen Volume</b>	3 mL	3 mL
<b>Specimen Preparation</b>	Centrifuge within 2 hours, separate serum or plasma, and send refrigerated to the reference lab.	Centrifuge within 2 hours, separate serum, and send refrigerated to the reference lab.
<b>Storage/Transport/Temperature</b>	Refrigerated	Refrigerated
<b>Unacceptable Conditions</b>	Wrong collection tube, Hemolysis	Wrong collection tube
<b>Stability</b>	Whole Blood: Room temperature 2 hours Serum/Plasma: Room temperature 4 days Serum/Plasma: Refrigerated 7 days Serum/Plasma: Frozen 28 days	Whole Blood: Room temperature 2 hours Serum: Room temperature 4 days Serum: Refrigerated 28 days Serum: Frozen 30 days

---

## CALCITONIN

Test Code: **XCALN**

Live Date: **1/13/2026**

	<b>New Test Calcitonin XCALN Quest</b>	<b>Old Test Calcitonin, Serum XCATNB Mayo</b>
<b>Methodology</b>	Immunoassay (IA)	Electrochemiluminescence immunoassay (ECLIA)

<b>Performed</b>	Monday through Saturday	Monday through Saturday
<b>Turnaround Time</b>	2 days	3 days
<b>Specimen Required</b>	Red Tube, no gel Gold Tube, SST	Red Tube, no gel Gold Tube, SST
<b>Specimen Volume</b>	3 mL	3 mL
<b>Specimen Preparation</b>	Centrifuge within 1 hour, separate supernatant and freeze.	Centrifuge within 1 hour, separate supernatant and freeze.
<b>Storage/Transport/Temperature</b>	Frozen	Frozen
<b>Unacceptable Conditions</b>	Wrong collection tube, Hemolysis	Wrong collection tube, Hemolysis
<b>Stability</b>	Whole Blood: Room temperature 1 hour  Serum: Frozen 28 days	Whole Blood: Room temperature 1 hour  Serum: Room temperature 8 hours  Serum: Refrigerated 24 hours  Serum: Frozen 90 days

---

## IODINE

Test Code: **XIODI**

Live Date: **1/13/2026**

	<b>New Test</b> <b>Iodine</b> <b>XIODI</b> <b>Quest</b>	<b>Old Test</b> <b>Iodine, Serum</b> <b>XIOD</b> <b>Mayo</b>
<b>Methodology</b>	Inductively Coupled Plasma/Mass Spectrometry (ICP/MS)	Inductively coupled plasma/ mass spectrometry

<b>Performed</b>	Tuesday through Saturday	Monday, Wednesday, Friday
<b>Turnaround Time</b>	3 days	3 days
<b>Specimen Required</b>	Royal Blue Tube, no anticoagulant Royal Blue Tube, EDTA	Royal Blue Tube, no anticoagulant
<b>Specimen Volume</b>	6 mL	7 mL
<b>Specimen Preparation</b>	Centrifuge within 1 hour, separate supernatant and store at room temperature.	Centrifuge within 1 hour, separate supernatant and refrigerate.
<b>Storage/Transport/Temperature</b>	Room Temperature	Refrigerated
<b>Unacceptable Conditions</b>	Wrong collection tube	Wrong collection tube
<b>Stability</b>	Whole Blood: Room temperature 1 hour  Serum/Plasma: Room temperature 10 days  Serum/Plasma: Refrigerated 10 days	Whole Blood: Room temperature 1 hour  Serum: Room temperature 3 weeks  Serum: Refrigerated 3 weeks  Serum: Frozen 3 weeks

---

## COMPLEMENT C1q

Test Code: **XCC1Q**

Live Date: **1/13/2026**

	<b>New Test Complement C1q XCC1Q Quest</b>	<b>Old Test Complement C1q, Serum XC1Q Mayo</b>
<b>Methodology</b>	Radial Immunodiffusion (RID)	Nephelometry

<b>Performed</b>	Monday, Wednesday	Monday through Friday
<b>Turnaround Time</b>	10 days	3 days
<b>Specimen Required</b>	Red Tube, no gel Gold Tube, SST Purple Tube, EDTA	Red Tube, no gel Gold Tube, SST
<b>Specimen Volume</b>	3 mL	3 mL
<b>Specimen Preparation</b>	Centrifuge within 1 hour, separate supernatant and refrigerate.	Centrifuge within 4 hours, separate supernatant and refrigerate.
<b>Storage/Transport/Temperature</b>	Refrigerated	Refrigerated
<b>Unacceptable Conditions</b>	Wrong type of specimen, Gross lipemia, Gross hemolysis	Wrong type of specimen, Gross lipemia
<b>Stability</b>	Whole Blood: Room temperature 1 hour  Serum/Plasma: Room temperature 4 days  Serum/Plasma: Refrigerated 10 days  Serum/Plasma: Frozen 29 days	Whole Blood: Room temperature 4 hours  Serum: Room temperature 21 days  Serum: Refrigerated 28 days  Serum: Frozen 28 days

---

## ZINC TRANSPORTER 8 AB

Test Code: **XZNT8**

Live Date: **1/13/2026**

	<b>New Test</b> <b>Zinc Transporter 8 Ab</b> <b>XZNT8</b> <b>Quest</b>	<b>Old Test</b> <b>Zinc Transporter 8</b> <b>Antibody</b> <b>XZT8</b> <b>ARUP</b>
--	---	---



<b>Methodology</b>	Enzyme Linked Immunosorbent Immunoassay (ELISA)	Semi-Quantitative Enzyme-Linked Immunosorbent Assay
<b>Performed</b>	Wednesday, Saturday	Wednesday
<b>Turnaround Time</b>	7 days	8 days
<b>Specimen Required</b>	Red Tube, no gel Gold Tube, SST	Red Tube, no gel Gold Tube, SST
<b>Specimen Volume</b>	3 mL	3 mL
<b>Specimen Preparation</b>	Centrifuge within 2 hours, separate supernatant and store at room temperature.	Centrifuge within 2 hours, separate supernatant and refrigerate.
<b>Storage/Transport/Temperature</b>	Room Temperature	Refrigerated
<b>Unacceptable Conditions</b>	Plasma unacceptable, Gross hemolysis, Lipemia, Icterus	Plasma unacceptable, Gross hemolysis, Gross lipemia
<b>Stability</b>	Whole Blood: Room temperature 2 hours  Serum: Room temperature 7 days  Serum: Refrigerated 7 days  Serum: Frozen 28 days	Whole Blood: Room temperature 2 hours  Serum: Room temperature 5 days  Serum: Refrigerated 1 week  Serum: Frozen 3 months

---

## UNSTABLE HEMOGLOBIN

Test Code: **XMIS**

Live Date: **1/13/2026**

	<b>New Test</b> Unstable Hemoglobin <b>XMIS</b> Quest	<b>Old Test</b> Hemoglobin, Unstable <b>XMIS</b> ARUP
--	--	--

<b>Methodology</b>	Alcohol Precipitation	Visual inspection
<b>Performed</b>	Daily	Monday through Friday
<b>Turnaround Time</b>	5 days	1 week
<b>Specimen Required</b>	Purple Tube, EDTA	Purple Tube, EDTA
<b>Specimen Volume</b>	6 mL	6 mL
<b>Specimen Preparation</b>	Transport to laboratory as soon as possible. Keep refrigerated.	Transport to laboratory as soon as possible. Keep refrigerated.
<b>Storage/Transport/Temperature</b>	Refrigerated	Refrigerated
<b>Unacceptable Conditions</b>	Wrong temperature, Frozen specimen, Room temperature receipt, Centrifuged specimen	Wrong temperature, Frozen specimen, Room temperature receipt, Specimens collected on infants less than 6 months old, Centrifuged specimen
<b>Stability</b>	Whole Blood: Room temperature 24 hours Whole Blood: Refrigerated 7 days	Whole Blood: Refrigerated 1 week

## ALPHA-IDURONIDASE ENZYME ACTIVITY IN LEUKOCYTES

Test Code: **XMIS**

Live Date: **1/13/2026**

	<b>New Test</b> <b>Alpha-Iduronidase</b> <b>Enzyme Activity in</b> <b>Leukocytes</b> <b>XMIS</b> <b>ARUP</b>	<b>Old Test</b> <b>Alpha L Iduronidase,</b> <b>Leukocytes</b> <b>XMIS</b> <b>Mayo</b>
<b>Methodology</b>	Quantitative Fluorometry	Flow Injection Analysis-Tandem Mass

		Spectrometry (FIA-MS/MS)
<b>Performed</b>	Monday	Varied
<b>Turnaround Time</b>	10 days	12 days
<b>Specimen Required</b>	Yellow Tube, ACD-B Purple Tube, EDTA	Yellow Tube, ACD-B Yellow Tube, ACD-A Purple Tube, EDTA
<b>Specimen Volume</b>	6 mL	6 mL
<b>Specimen Preparation</b>	Do not centrifuge.  Do not freeze.  Transport to laboratory as soon as possible.	Do not centrifuge.  Do not freeze.  Transport to laboratory as soon as possible.
<b>Storage/Transport/Temperature</b>	Room Temperature	Refrigerated
<b>Unacceptable Conditions</b>	Wrong collection tube, Frozen specimen, Centrifuged specimen, Gross hemolysis, Heparinized specimen	Wrong collection tube, Clotted specimen, Frozen specimen, Centrifuged specimen, Gross hemolysis
<b>Stability</b>	Whole Blood: Room temperature 3 days  Whole Blood: Refrigerated 3 days	Whole Blood: Room temperature 6 days  Whole Blood: Refrigerated 6 days

.....

## MUSCLE-SPECIFIC KINASE (MuSK) ANTIBODY, IgG BY CBA-IFA WITH REFLEX TO TITER, SERUM

Test Code: **XMIS**

Live Date: **1/13/2026**

	<b>New Test Muscle-Specific</b>	<b>Old Test Muscle Specific Kinase</b>
--	-------------------------------------	--

	<b>Kinase (MuSK) Antibody, IgG by CBA- IFA with Reflex to Titer, Serum XMIS ARUP</b>	<b>(MuSK) Autoantibody, Serum XMIS Mayo</b>
<b>Methodology</b>	Semi-Quantitative Cell- Based Indirect Fluorescent Antibody)	Radioimmunoassay
<b>Performed</b>	Monday, Wednesday, Friday	Monday through Friday
<b>Turnaround Time</b>	6 days	11 days
<b>Specimen Required</b>	Red Tube, no gel  Gold Tube, SST	Red Tube, no gel  Gold Tube, SST
<b>Specimen Volume</b>	3 mL	3 mL
<b>Specimen Preparation</b>	Centrifuge within 2 hours, separate supernatant and refrigerate.	Centrifuge within 2 hours, separate supernatant and refrigerate.
<b>Storage/Transport/Temperature</b>	Refrigerated	Refrigerated
<b>Unacceptable Conditions</b>	Wrong collection tube, Gross hemolysis, Gross lipemia, Gross icterus	Wrong collection tube, Gross hemolysis, Gross lipemia, Gross icterus
<b>Stability</b>	Whole Blood: Room temperature 2 hours  Serum: Room temperature 2 days  Serum: Refrigerated 2 weeks  Serum: Frozen 1 month	Whole Blood: Room temperature 2 hours  Serum: Room temperature 3 days  Serum: Refrigerated 28 days  Serum: Frozen 28 days

.....

**BETA-2 MICROGLOBULIN**

Test Code: **XB2MG**

Live Date: **1/13/2026**

	<b>New Test Beta-2 Microglobulin XB2MG ARUP</b>	<b>Old Test Beta 2 Microglobulin, Serum XB2M Mayo</b>
<b>Methodology</b>	Quantitative Immunoturbidimetry	Nephelometry
<b>Performed</b>	Daily	Monday through Friday
<b>Turnaround Time</b>	2 days	3 days
<b>Specimen Required</b>	Red Tube, no gel Gold Tube, SST Green Tube, Lithium Heparin Purple Tube, EDTA	Red Tube, no gel Gold Tube, SST
<b>Specimen Volume</b>	3 mL	3 mL
<b>Specimen Preparation</b>	Centrifuge within 2 hours, separate supernatant and freeze.	Centrifuge within 4 hours, separate supernatant and refrigerate.
<b>Storage/Transport/Temperature</b>	Frozen	Refrigerated
<b>Unacceptable Conditions</b>	Wrong collection tube	Wrong collection tube
<b>Stability</b>	Whole Blood: Room temperature 2 hours  Serum/Plasma: Room temperature 72 hours  Serum/Plasma: Refrigerated 72 hours  Serum/Plasma: Frozen 6 months	Whole Blood: Room temperature 4 hours  Serum: Room temperature 2 weeks  Serum: Refrigerated 28 days  Serum: Frozen 28 days

.....

## METANEPHRINES FRACTIONATED, URINE

Test Code: **XMTAF**

Live Date: **1/13/2026**

	New Test Metanephrines Fractionated, Urine XMTAF ARUP	Old Tests Mayo	
		Metanephrines, Fractionated, 24 Hour, Urine XMETAF	Metanephrines, Fract. Urine XMETRN
<b>Methodology</b>	Quantitative High Performance Liquid Chromatography-Tandem Mass Spectrometry	Liquid Chromatography-Tandem Mass Spectrometry (LC-MS/MS)	Enzymatic Colorimetric Assay, Liquid Chromatography-Tandem Mass Spectrometry (LC-MS/MS)
<b>Performed</b>	Daily	Monday through Friday	Monday through Friday
<b>Turnaround Time</b>	5 days	5 days	3 days
<b>Specimen Required</b>	Urine, 24 hours Urine, Random	Urine, 24 hours	Urine, Random
<b>Specimen Volume</b>	10 mL	10 mL	10 mL
<b>Specimen Preparation</b>	Urine, 24 hours: Refrigerate during collection. Transport to laboratory as soon as possible.  Urine, Random: Transport to laboratory as soon as possible.	Refrigerate during collection. Transport to laboratory as soon as possible.	Transport to laboratory as soon as possible.
<b>Storage/Transport/Temperature</b>	Refrigerated	Refrigerated	Refrigerated

Unacceptable Conditions	Specimens preserved with boric acid or acetic acid	Wrong type of specimen	Wrong type of specimen
<b>Stability</b>	Urine, 24 hours: Refrigerated 2 weeks (unpreserved)	Urine, 24 hours: Room temperature 28 days	Urine, Random: Room temperature 14 days
	Urine, 24 hours: Frozen 1 month (unpreserved)	Urine, 24 hours: Refrigerated 28 days	Urine, Random: Refrigerated 28 days
	Urine, 24 hours: Refrigerated 1 month (preserved)	Urine, 24 hours: Frozen 28 days	Urine, Random: Frozen 28 days
	Urine, Random: Refrigerated 2 weeks (unpreserved)		
	Urine, Random: Frozen 1 month (unpreserved)		
	Urine, Random: Refrigerated 1 month (persevered)		

If you have any additional questions about testing, please call Client Services at 614-722-5477.