

UNITYPOINT HEALTH - MERITER LABORATORIES

New Chemistry Analyzers

4/10/24

Meriter Laboratories will be implementing new chemistry analyzers on Tuesday, 4/16. The transition will start at 0930, take approximately 2 hours, and will require a downtime of approximately one hour. Only STAT orders will be processed during this time.

Current Analyzer	Testing	New Analyzer	Methodology
Roche Cobas 6000	<ul style="list-style-type: none"> • General Chemistry Testing • Immunoassays • Therapeutic Drugs • Body Fluids/CSF Chemistry Testing • Urine Drug Screens • Urine Chemistry Testing 	Roche Cobas Pro	Please see the Meriter Lab Test Catalog for individual test methodologies
Abbott Architects	<ul style="list-style-type: none"> • HIV • Hepatitis A, IgM • Hepatitis B Core Ab, IgM • Hepatitis B Core Ab, Total • Hepatitis C Ab • Syphilis Ab • Vitamin D 	Roche Cobas Pro	Chemiluminescence Immunoassay Please see the Meriter Lab Test Catalog for individual test methodologies

Along with this instrument change, Meriter Lab will also be aligning with UPH standardization efforts for multiple analyte reference ranges. To view all reference range changes, please review [Meriter Lab's Test Catalog](#) for each individual analyte. A new baseline sample may be needed for therapeutic drugs.

Analyte	Epic/SQ Code	Current Therapeutic Range	New Therapeutic Range
Digoxin	LAB23, DIG	1.0-2.0 ng/mL	0.8-2.0 ng/mL
Gentamicin, Peak	LAB28, GENTP	4.0-12.0 ug/mL	6.0-10.0 ug/mL
Gentamicin, Trough	LAB26, GENTT	0.0-2.0 ug/mL	0.5-2.0 ug/mL
Lithium	LAB29, LI	0.5-1.0 mmol/L	0.6-1.2 mmol/L
Phenobarbital	LAB30, PHENO	15.0-40.0 ug/mL	10.0-30.0 ug/mL
Progesterone	LAB529, PROG	Males: 0.2-1.4 ng/mL	Males: 0.3-1.2 ng/mL

Tobramycin, Peak	LAB36, TOBP	4.0-12.0 ug/mL	6.0-10.0 ug/mL
Tobramycin, Trough	LAB38, TOBT	0.0-2.0 ug/mL	0.5-2.0 ug/mL

Analyte	Epic/SQ Code	Current Reference Range	New Reference Range
Alpha-Fetoprotein (AFP), Non-Pregnant, Tumor Marker	LAB559, AFPTM	≥18 months: ≤8.7 ng/mL	18 months – 17 years: ≤8.7 ng/mL ≥18 years: 0.0-8.3 ng/mL
Albumin	LAB45, ALB	6-59 years: 3.6-5.4 g/dL ≥60 years: 3.4-5.2 g/dL	6-18 years: 3.6-5.4 g/dL ≥19 years: 3.5-5.2 g/dL
Beta-Hydroxybutyrate	LAB2551, BHB	≥18 years: 0.0-0.27 mmol/L	≥18 years: 0.10-0.20 mmol/L
Blood Urea Nitrogen	LAB140, BUN	Female 10-59 years: 6-21 mg/dL 60-69 years: 6-26 mg/dL 70-79 years: 6-28 mg/dL ≥80 years: 6-30 mg/dL Male 10-59 years: 8-23 mg/dL 60-69 years: 8-28 mg/dL 70-79 years: 8-30 mg/dL ≥80 years: 8-32 mg/dL	18-59 years: 6-20 mg/dL ≥60 years: 8-23 mg/dL
Calcium	LAB53, CA	8.5-10.4 mg/dL	18-59 years: 8.6-10.0 mg/dL 60-89 years: 8.8-10.2 mg/dL ≥90 years: 8.2-9.6 mg/dL
Creatine Kinase, Total	LAB62, CK	Female ≥16 years: 0-175 U/L Male ≥16 years: 0-250 U/L	Female ≥18 years: 26-192 U/L Male ≥18 years: 39-308 U/L
Chloride	LAB59, CL	97-108 mmol/L	98-107 mmol/L
Carbon Dioxide (CO2)	LAB559, CO2	23-32 mmol/L	22-29 mmol/L
Creatinine	LAB66, CREAT	Female ≥15 years: 0.50-1.10 mg/dL Male ≥15 years: 0.50-1.20 mg/dL	Female ≥18 years: 0.51-0.95 Male ≥18 years: 0.67-1.17
Iron	LAB94, FE	≥12 years: 59-158 ug/dL	12-17 years: 59-158 ug/dL ≥18 years: 37-145 ug/dL
Ferritin	LAB68, FERR	Female 15-49 years: 10-150 ng/mL Female ≥50 years: 15-230 ng/mL Male ≥18: 25-400 ng/mL	¹ Female ≥18 years: 20-204 ng/mL Male ≥18 years: 30-400 ng/mL

T4 (Thyroxine), Free	LAB127, FT4C	>11 years: 0.8-1.8 ng/dL	11-17 years: 0.8-1.8 ng/dL ≥18 years: 0.9-1.7 ng/dL
hCG (Human Chorionic Gonadotropin) Intact and Beta-Subunit, Quantitative	LAB143, HCGQNT	Male: 0-3 m[IU]/mL	Male: <2.6 m[IU]/mL
Potassium	LAB114, K	3.4-4.8 mmol/L	3.5-5.1 mmol/L
Lactate Dehydrogenase (LD)	LAB96, LDH	Female ≥16 years: 104-211 U/L Male ≥16 years: 104-247 U/L	Female ≥18 years: 135-214 U/L Male ≥18 years: 134-225 U/L
Magnesium	LAB103, MG	1.6-2.4 mg/dL	Female 0-59 years: 1.6-2.6 mg/dL ≥60 years: 1.6-2.4 mg/dL Male 0-59 years: 1.6-2.6 mg/dL ≥90 years: 1.7-2.3 mg/dL
Sodium	LAB122, NA	135-145 mmol/L	136-145 mmol/L
Phosphorus	LAB113, PHOS	≥18 years: 2.1-5.1 mg/dL	≥18 years: 2.5-4.5 mg/dL
Rasburicase Uric Acid	LAB2920, RASURI	Female ≥12 years: 2.5-6.4 mg/dL Male ≥15 years: 3.9-8.2 mg/dL	Female 12-17 years: 2.5-6.4 mg/dL ≥18 years: 2.4-5.7 mg/dL Male 15-17 years: 3.9-8.2 mg/dL ≥18 years: 3.4-7.0
T4 (Thyroxine), Total	LAB126, T4	≥10 years: 4.6-12.0 ug/dL	10-19 years: 4.6-12.0 ug/dL ≥20 years: 4.5-11.7 ug/dL
Bilirubin, Total	LAB50, TBIL	Female: 13-24 years: 0.3-1.3 mg/dL 25-39 years: 0.3-1.2 mg/dL ≥40 years: 0.3-1.1 mg/dL Male: 13-24 years: 0.3-1.7 mg/dL 25-39 years: 0.3-1.5 mg/dL ≥40 years: 0.3-1.3 mg/dL	≥18 years: 0.0-1.2 mg/dL
Protein, Total	LAB118, TP	≥18 years: 5.8-8.3 g/dL	≥18 years: 6.4-8.3 g/dL
Uric Acid	LAB141, URIC	Female ≥12 years: 2.5-6.4 mg/dL Male ≥15 years: 3.9-8.2 mg/dL	Female ≥18 years: 2.4-5.7 mg/dL Male ≥18 years: 3.4-7.0 mg/dL

¹ In accordance with UW Lab, Meriter has adopted a 'functional' lower reference limit for Ferritin, established by correlation of ferritin with hematologic parameters of iron deficiency.

Analyte/Panel	Current Epic/SQ Code	New Epic/SQ Code	Comment
Theophylline	LAB35, THEO	LAB2607, MISLAB	In-house testing is being discontinued due to low volumes. Send out testing is available via ARUP - 0090265.
Drug Screen, Urine	LAB5054, DAUP CPT: 80307	No changes CPT: 80307	Buprenorphine and Fentanyl will be added to the drug panel. Cannabinoids cutoff will be changed from 25 ng/mL to 50 ng/mL. Drugs included are the following: <ul style="list-style-type: none"> • Amphetamines • Barbiturates • Benzodiazepines • Buprenorphine • Cannabinoids • Cocaine • Fentanyl • Methadone • Opiates/Narcotics • Oxycodone

The addition of Buprenorphine and Fentanyl to the Outpatient Drug Screen, Urine Basic 8 (LAB5057, UDP8), will occur shortly after instrument go live.

If you have any questions, please call the UnityPoint Health - Meriter Laboratories Client Services Department at 608-417-6529 or 1-800-236-0465.