

## Update Notes

## Update Summary

<b>New Website Listing</b>	2/19/2019	<a href="#">BIS - "Bismuth"</a>
<b>New Website Listing</b>	2/19/2019	<a href="#">ZNIC - "Nickel"</a>
<b>Update Existing Test</b>	1/22/2019	<a href="#">ALDIV - "Aldosterone, Inf Vena Cava, Serum"</a>
<b>Update Existing Test</b>	1/22/2019	<a href="#">ALDLA - "Aldosterone, Lf Adr Vein, Serum"</a>
<b>Update Existing Test</b>	1/22/2019	<a href="#">ALDRA - "Aldosterone, Rt Adr Vein, Serum"</a>
<b>Update Existing Test</b>	2/19/2019	<a href="#">BROMI - "Bromide"</a>
<b>Update Existing Test</b>	2/19/2019	<a href="#">C1QBA - "C1q Binding Assay"</a>
<b>Update Existing Test</b>	2/25/2019	<a href="#">CAGAM - "Candida albicans Antibodies"</a>
<b>Update Existing Test</b>	2/19/2019	<a href="#">CARIU - "Carisoprodol, Meprobamate"</a>
<b>Update Existing Test</b>	2/19/2019	<a href="#">CYAN - "Cyanide"</a>
<b>Update Existing Test</b>	2/19/2019	<a href="#">EASRT - "Ehrlichia and Anaplasma Species by Real-Time PCR"</a>
<b>Update Existing Test</b>	2/4/2019	<a href="#">IA2 - "IA-2 Antibody"</a>
<b>Update Existing Test</b>	2/19/2019	<a href="#">IBUPR - "Ibuprofen (Advil, Motrin)"</a>
<b>Update Existing Test</b>	2/19/2019	<a href="#">MEX - "Mexiletine (Mexitil)"</a>
<b>Update Existing Test</b>	2/19/2019	<a href="#">MNWB - "Manganese, Whole Blood"</a>
<b>Update Existing Test</b>	2/4/2019	<a href="#">NAP - "Naproxen (Naprosyn), Serum/Plasma"</a>
<b>Update Existing Test</b>	2/11/2019	<a href="#">QFGLB - "Fecal Globin"</a>
<b>Update Existing Test</b>	2/19/2019	<a href="#">SERT - "Sertraline"</a>
<b>Update Existing Test</b>	2/1/2019	<a href="#">UCOPT - "Clin Urine Opiate Confirm"</a>
<b>Update Existing Test</b>	2/1/2019	<a href="#">UCTHC - "Clin Urine THC Confirm"</a>
<b>Update Existing Test</b>	2/19/2019	<a href="#">UTPME - "Tapentadol and Metabolite, Urine, Quantitative"</a>
<b>Update Existing Test</b>	2/19/2019	<a href="#">VGKCA - "Voltage Gated Potassium Channel (VGKC) Antibody, Serum"</a>
<b>Update Existing Test</b>	2/26/2019	<a href="#">ZSIL - "Silver, Serum/Plasma"</a>
<b>Inactivate Test With Replacement</b>	2/19/2019	<a href="#">BUPR - "Bupropion, Serum or Plasma" replaced by BUPSP - "Bupropion, Serum or Plasma"</a>
<b>Inactivate Test With Replacement</b>	2/19/2019	<a href="#">ORGPA - "Organic Acids, Plasma" replaced by ORGAP - "Organic Acids, Plasma"</a>
<b>Inactivate Test With Replacement</b>	2/19/2019	<a href="#">THIOL - "Thiocyanate, Serum or Plasma" replaced by THIOC - "Thiocyanate, Serum or Plasma"</a>

Inactivate Test With Replacement	2/25/2019	<a href="#">USCXS - "Synthetic Cannabinoid Metabolites - Expanded, Urine (Qual)" replaced by USC19 - "Synthetic Cannabinoid Metabolites - Expanded (Qual)"</a>
Inactivate Test Without Replacement	2/4/2019	<a href="#">OKRA - "Okra IgE"</a>
Inactivate Test Without Replacement	2/25/2019	<a href="#">PEMO - "Pemoline (Cylert), Serum/Plasma"</a>
Inactivate Test Without Replacement	2/19/2019	<a href="#">VIS - "Viscosity - Blood"</a>

## New Website Listing

Effective Date	2/19/2019
Name	Bismuth
Code	BIS
CPT Code(s)	83018
Notes	

## Specimen Requirements

Specimen Required	Diet, medication and nutritional supplements may introduce interfering substances. Patients should be encouraged to discontinue nutritional supplements vitamins, minerals, and non-essential over-the-counter medications (upon the advice of their physician). Draw blood in a dark blue EDTA. Send 7.0 mL whole blood (0.5 mL minimum) room temperature in the original tube, or in a blue-capped metal-free screw-capped vial.
Rejection Criteria	Clotted specimens, heparin anticoagulant.
Stability	Room temperature: Indefinitely; Refrigerated: Indefinitely; Frozen: Unacceptable

## Performing Information

Methodology	Quantitative Inductively Coupled Plasma - Mass Spectrometry
Reference Range	≤5.0 µg/L
Performed Days	Sunday-Saturday
Turnaround Time	3-5 days
Performing Laboratory	ARUP Reference Laboratory

## Interface Information

Legacy Code <sup>1</sup>	BIS		
Interface Order Code	3500563		
Result Code	Name	LOINC Code	AOE/Prompt <sup>2</sup>
3500563	Bismuth	8161-2	No

New Website Listing			
Effective Date	2/19/2019		
Name	Nickel		
Code	ZNIC		
CPT Code(s)	83885		
Notes			
Specimen Requirements			
Specimen Required	Diet, medication, and nutritional supplements may introduce interfering substances. Patients should be encouraged to discontinue nutritional supplements vitamins, minerals, and non-essential over-the-counter medications (upon advice of their physician). Draw blood in a plain dark blue, centrifuge, remove serum from cells within 2 hours of collection and send 2.0 mL serum (0.5 mL minimum) refrigerated in a blue-capped metal-free screw-capped plastic vial.		
Rejection Criteria	Specimens collected in tubes other than dark blue no additive (plain).		
Stability	Room temperature: Indefinitely; Refrigerated: Indefinitely; Frozen: Indefinitely		
Performing Information			
Methodology	Quantitative Inductively Coupled Plasma - Mass Spectrometry		
Reference Range	≤10.0 ug/L		
Performed Days	Sunday-Saturday		
Turnaround Time	3-5 days		
Performing Laboratory	ARUP Reference Laboratory		
Interface Information			
Legacy Code <sup>1</sup>	NIC		
Interface Order Code	3508030		
Result Code	Name	LOINC Code	AOE/Prompt <sup>2</sup>
3508030	Nickel	5702-6	No

Update Existing Test	
Effective Date	1/22/2019
Name	Aldosterone, Inf Vena Cava, Serum
Code	ALDIV
Interface Order Code	3805200
Legacy Code	ALDIVCM
Notes	
Required Testing Changes	
Stability	Room temperature: 4 days; Refrigerated: 28 days; Frozen: 30 days

Update Existing Test	
Effective Date	1/22/2019
Name	Aldosterone, Lf Adr Vein, Serum
Code	ALDLA
Interface Order Code	3805240
Legacy Code	ALDLAVM
Notes	
Required Testing Changes	
Stability	Room temperature: 4 days; Refrigerated; 28 days; Frozen: 30 days

Update Existing Test	
Effective Date	1/22/2019
Name	Aldosterone, Rt Adr Vein, Serum
Code	ALDRA
Interface Order Code	3805220
Legacy Code	ALDRAVM
Notes	
Required Testing Changes	
Stability	Room temperature: 4 days; Refrigerated: 28 days; Frozen: 30 days

Update Existing Test	
Effective Date	2/19/2019
Name	Bromides
Code	BROMI
Interface Order Code	3500878
Legacy Code	BROM
Notes	
Required Testing Changes	
Name	Bromide
Specimen Required	Draw blood in a plain red-top tube. Centrifuge, separate from cells within 2 hours of collection and send 1.0 mL serum (0.5 mL minimum) room temperature in a screw-capped plastic vial.

Update Existing Test	
Effective Date	2/19/2019
Name	C1q Binding Assay
Code	C1QBA
Interface Order Code	3680420
Legacy Code	C1QBAARP
Notes	
Required Testing Changes	
Reference Range	≤3.9 µg Eq/mL

Update Existing Test	
Effective Date	2/25/2019
Name	Candida albicans Antibodies
Code	CAGAM
Interface Order Code	3424400
Legacy Code	CANGAMQ
Notes	
Required Testing Changes	
Performed Days	Monday, Wednesday-Saturday
Turnaround Time	3-5 days

Update Existing Test	
Effective Date	2/19/2019
Name	Carisoprodol, Meprobamate
Code	CARIU
Interface Order Code	3300005
Legacy Code	CARIU
Notes	
Required Testing Changes	
Performed Days	Sunday, Tuesday, Thursday
Turnaround Time	3-8 days

Update Existing Test	
Effective Date	2/19/2019
Name	Cyanide
Code	CYAN
Interface Order Code	3680540
Legacy Code	CYANAR
Notes	
Required Testing Changes	
Methodology	Quantitative Colorimetry
Performed Days	Sunday, Tuesday, Friday

Update Existing Test	
Effective Date	2/19/2019
Name	Ehrlichia and Anaplasma Species by Real-Time PCR
Code	EASRT
Interface Order Code	3600090
Legacy Code	EASRT
Notes	
Required Testing Changes	
Rejection Criteria	Heparinized specimens, serum, plasma

Update Existing Test	
Effective Date	2/4/2019
Name	IA-2 Antibody
Code	IA2
Interface Order Code	3421140
Legacy Code	IA2Q
Notes	
Required Testing Changes	
Rejection Criteria	Gross hemolysis, grossly lipemic
Stability	Room temperature: 7 days; Refrigerated: 7 days; Frozen: 30 days
Methodology	Enzyme Linked Immunosorbent Assay
Reference Range	<5.4 U/mL
Performed Days	Tuesday, Thursday, Saturday
Turnaround Time	5-7 days

Update Existing Test	
Effective Date	2/19/2019
Name	Ibuprofen (Advil, Motrin)
Code	IBUPR
Interface Order Code	3503740
Legacy Code	IBUPROF
Notes	
Required Testing Changes	
Specimen Required	Draw blood (between 60-90 minutes post dose) in a plain red-top tube. Centrifuge and separate serum from cells within 2 hours of collection. Send 1.0 mL serum (0.3 mL minimum) refrigerated in a screw-capped plastic vial.
Stability	Room temperature: 15 days; Refrigerated: 15 days; Frozen: 15 days
Methodology	Quantitative High Performance Liquid Chromatography/Tandem Mass Spectrometry

Update Existing Test	
Effective Date	2/19/2019
Name	Mexiletine (Mexitil)
Code	MEX
Interface Order Code	3505000
Legacy Code	MEX
Notes	
Required Testing Changes	
Specimen Required	Draw blood in a plain red-top tube. Centrifuge, separate serum from cells within 2 hours and send 1.0 mL serum (0.5 mL minimum) refrigerated in a screw-capped plastic vial.
Performed Days	Monday, Thursday, Saturday

Update Existing Test	
Effective Date	2/19/2019
Name	Manganese, Whole Blood
Code	MNWB
Interface Order Code	3681120
Legacy Code	MANBAR
Notes	
Required Testing Changes	
Specimen Required	Patient preparation: Patient should be encouraged to discontinue nutritional supplements, vitamins, minerals and non-essential over-the-counter medications. Draw blood in a dark blue EDTA tube. Send 7.0 mL whole blood (0.5 mL minimum) room temperature in the original collection tube or a blue capped metal-free screw-capped vial.
Rejection Criteria	Heparin specimens, clotted specimens, specimens collected in tubes other than dark blue EDTA.

Update Existing Test	
Effective Date	2/4/2019
Name	Naproxen (Naprosyn), Serum/Plasma
Code	NAP
Interface Order Code	3505340
Legacy Code	NAP
Notes	
Required Testing Changes	
Stability	Room temperature: 15 days; Refrigerated: 15 days; Frozen: 15 days
Methodology	Liquid Chromatography - Tandem Mass Spectrometry (LC/MS/MS)



Update Existing Test	
Effective Date	2/11/2019
Name	Fecal Globin
Code	QFGLB
Interface Order Code	3423065
Legacy Code	FECGLOBQ
Notes	
Required Testing Changes	
Specimen Required	Fecal specimen (minimum one InSure® FOBT test card with specimen applied to one window) collected from toilet water and brushed on the InSure FOBT test card. Protect from direct sunlight. No special diet or avoidance of drugs or supplements is required for this test.
Rejection Criteria	Stool submitted in any container, InSure® FOBT cards with stool applied to the sample windows, any test card with obvious blood present, received refrigerated, received frozen.
Reference Range	Not detected
Performed Days	Sunday-Saturday
Turnaround Time	2-4 days

Update Existing Test	
Effective Date	2/19/2019
Name	Sertraline
Code	SERT
Interface Order Code	3685700
Legacy Code	SERTAR
Notes	
Required Testing Changes	
Performed Days	Wednesday
Turnaround Time	3-9 days

Update Existing Test	
Effective Date	2/1/2019
Name	Clin Urine Opiate Confirm
Code	UCOPT
Interface Order Code	1847600
Legacy Code	UCOPT
Notes	
Required Testing Changes	
Turnaround Time	3 days

Update Existing Test	
Effective Date	2/1/2019
Name	Clin Urine THC Confirm
Code	UCTHC
Interface Order Code	1848100
Legacy Code	UCTHC
Notes	
Required Testing Changes	
Turnaround Time	3 days

Update Existing Test	
Effective Date	2/19/2019
Name	Tapentadol and Metabolite, Urine, Quantitative
Code	UTPME
Interface Order Code	3622300
Legacy Code	UTPME
Notes	
Required Testing Changes	
Performed Days	Sunday, Wednesday, Friday
Turnaround Time	3-9 days

Update Existing Test	
Effective Date	2/19/2019
Name	Voltage-Gated Potassium Channel (VGKC) Antibody
Code	VGKCA
Interface Order Code	3621900
Legacy Code	VGKCA
Notes	
Required Testing Changes	
Name	Voltage Gated Potassium Channel (VGKC) Antibody, Serum
Stability	Room temperature: 72 hours; Refrigerated: 14 days; Frozen: 1 month

Update Existing Test	
Effective Date	2/26/2019
Name	Silver, Serum/Plasma
Code	ZSIL
Interface Order Code	3509950
Legacy Code	SIL
Notes	
Required Testing Changes	
CPT Code(s)	83018

Inactivate Test With Replacement			
<b>Effective Date</b>	2/19/2019		
Inactivated Test			
<b>Name</b>	Bupropion, Serum or Plasma		
<b>Code</b>	BUPR		
<b>Legacy Code<sup>1</sup></b>	BUPR		
<b>Interface Order Code</b>	3620955		
<b>Notes</b>			
Replacement Test			
<b>Name</b>	Bupropion, Serum or Plasma		
<b>Code</b>	BUPSP		
<b>CPT Code(s)</b>	80338 (G0480)		
<b>Notes</b>			
Specimen Requirements			
<b>Specimen Required</b>	Draw blood in a plain red-top tube. Centrifuge, separate serum from cells and freeze within 2 hours. Send 2.0 mL (1.5 mL minimum) frozen in a screw-capped plastic vial. CRITICAL FROZEN.		
<b>Alternate Specimen</b>	Plasma: Lavender EDTA		
<b>Rejection Criteria</b>	SST tube, sodium citrate, ACD A or B		
<b>Stability</b>	Room temperature; Unacceptable; Refrigerated: Unacceptable; Frozen: 1 month		
Performing Information			
<b>Methodology</b>	Quantitative Liquid Chromatography/Tandem Mass Spectrometry		
<b>Reference Range</b>	Therapeutic Range: 50-100 ng/mL Toxic Level: >400 ng/mL		
<b>Performed Days</b>	Wednesday, Saturday		
<b>Turnaround Time</b>	3-7 days		
<b>Performing Laboratory</b>	ARUP Reference Laboratory		
Interface Information			
<b>Legacy Code<sup>1</sup></b>	BUPSP		
<b>Interface Order Code</b>	3600034		
<b>Result Code</b>	<b>Name</b>	<b>LOINC Code</b>	<b>AOE/Prompt<sup>2</sup></b>
3600034	Bupropion, Serum or Plasma	6706-6	No

Inactivate Test With Replacement			
<b>Effective Date</b>	2/19/2019		
Inactivated Test			
<b>Name</b>	Organic Acids, Plasma		
<b>Code</b>	ORGPA		
<b>Legacy Code<sup>1</sup></b>	ORGARP		
<b>Interface Order Code</b>	3689120		
<b>Notes</b>			
Replacement Test			
<b>Name</b>	Organic Acids, Plasma		
<b>Code</b>	ORGAP		
<b>CPT Code(s)</b>	83918		
<b>Notes</b>			
Specimen Requirements			
<b>Specimen Required</b>	Draw blood in a green sodium or lithium heparin tube. Centrifuge and separate plasma from cells within 1 hour of collection. Send 3.0 mL plasma (2.0 mL minimum) frozen in a screw-capped plastic vial. CRITICAL FROZEN.		
<b>Stability</b>	Room temperature: Unacceptable; Refrigerated: Unacceptable; Frozen: 1 month		
Performing Information			
<b>Methodology</b>	Quantitative Gas Chromatography/Mass Spectrometry		
<b>Reference Range</b>	By report		
<b>Performed Days</b>	Tuesday		
<b>Turnaround Time</b>	5-17 days		
<b>Performing Laboratory</b>	ARUP Reference Laboratory		
Interface Information			
<b>Legacy Code<sup>1</sup></b>	ORGAP		
<b>Interface Order Code</b>	3600103		
Result Code	Name	LOINC Code	AOE/Prompt <sup>2</sup>
3600104	Organic Acids, Plasma Interp	33475-5	No
3600105	Lactic Acid	2524-7	No
3600106	Pyruvic Acid	32338-6	No
3600107	Succinic Acid	35871-3	No
3600108	3-OH Butyric Acid	6873-4	No
3600109	Acetoacetic Acid	35867-1	No
3600111	2-keto-3-methylvaleric Acid	35869-7	No
3600112	2-ketoisocaproic Acid	35870-5	No
3600113	2-ketoisovaleric Acid	35868-9	No
3600114	Glutaric Acid, Plasma	35133-8	No

Inactivate Test With Replacement			
<b>Effective Date</b>	2/19/2019		
Inactivated Test			
<b>Name</b>	Thiocyanate, Serum or Plasma		
<b>Code</b>	THIOL		
<b>Legacy Code<sup>1</sup></b>	THIOL		
<b>Interface Order Code</b>	3621700		
<b>Notes</b>			
Replacement Test			
<b>Name</b>	Thiocyanate, Serum or Plasma		
<b>Code</b>	THIOC		
<b>CPT Code(s)</b>	84430		
<b>Notes</b>			
Specimen Requirements			
<b>Specimen Required</b>	Draw blood in a plain red-top tube. Centrifuge, separate serum from cells within 2 hours, and send 1.0 mL serum (0.5 mL minimum) refrigerated in a screw-capped plastic vial.		
<b>Alternate Specimen</b>	Plasma: EDTA		
<b>Rejection Criteria</b>	Citrated plasma, ACD plasma, whole blood		
<b>Stability</b>	Room temperature: 5 days; Refrigerated: 5 days; Frozen: 5 days		
Performing Information			
<b>Methodology</b>	Quantitative Colorimetric		
<b>Reference Range</b>	Non-smoker: $\leq 4$ $\mu\text{g/mL}$ Smoker: 3-12 $\mu\text{g/mL}$ Nitroprusside therapy: 6-29 $\mu\text{g/mL}$ Toxic: 50 $\mu\text{g/mL}$		
<b>Performed Days</b>	Sunday, Thursday		
<b>Turnaround Time</b>	3-7 days		
<b>Performing Laboratory</b>	ARUP Reference Laboratory		
Interface Information			
<b>Legacy Code<sup>1</sup></b>	THIOC		
<b>Interface Order Code</b>	3600033		
<b>Result Code</b>	<b>Name</b>	<b>LOINC Code</b>	<b>AOE/Prompt<sup>2</sup></b>
3600033	Thiocyanate, Serum or Plasma	3002-3	No

Inactivate Test With Replacement			
<b>Effective Date</b>	2/25/2019		
Inactivated Test			
<b>Name</b>	Synthetic Cannabinoid Metabolites - Expanded, Urine (Qual)		
<b>Code</b>	USCXS		
<b>Legacy Code<sup>1</sup></b>	USCXS		
<b>Interface Order Code</b>	3302700		
<b>Notes</b>			
Replacement Test			
<b>Name</b>	Synthetic Cannabinoid Metabolites - Expanded (Qual)		
<b>Code</b>	USC19		
<b>CPT Code(s)</b>	80352 (G0480)		
<b>Notes</b>			
Specimen Requirements			
<b>Specimen Required</b>	Send 3.0 mL random urine (1.2 mL minimum) refrigerated in a screw-capped plastic vial.		
<b>Stability</b>	Room temperature: 30 days; Refrigerated: 30 days; Frozen: 30 days		
Performing Information			
<b>Methodology</b>	High Performance Liquid Chromatography/Tandem Mass Spectrometry		
<b>Reference Range</b>	By report		
<b>Performed Days</b>	Tuesday, Thursday		
<b>Turnaround Time</b>	5-7 days		
<b>Performing Laboratory</b>	NMS Labs		
Interface Information			
<b>Legacy Code<sup>1</sup></b>	USC19		
<b>Interface Order Code</b>	3300099		
Result Code	Name	LOINC Code	AOE/Prompt <sup>2</sup>
3300101	4-carboxy-NA-PIM	72461-7	No
3300102	FUBIC-ACID	67126-3	No
3300103	5-fluoro-PICA 3, 3-dimethylbutanoic acid	67126-3	No
3300104	CHMINACA-3-methylbutanoic acid	87495-8	No
3300105	FUBICA 3, 3-dimethylbutanoic acid	67126-3	No
3300107	CHMIC-ACID	87484-2	No
3300108	4-carboxy-CUMYL-BINACA	67126-3	No
3300109	4-carboxy-AMB-PINACA	87492-5	No
3300111	5-fluoro-PINAC-ACID	87490-9	No
3300112	CHMINACA 3, 3-dimethylbutanoic acid	87487-5	No
3300113	5-fluoro-PINACA 3-methylbutanoic acid	67126-3	No

3300114	5-fluoro-PINACA 3, 3-dimethylbutanoic acid	67126-3	No
3300115	FUBINACA 3-methylbutanoic acid	87493-3	No
3300116	FUBINACA 3, 3-dimethylbutanoic acid	90747-7	No

## Inactivate Test Without Replacement

<b>Effective Date</b>	2/4/2019
<b>Name</b>	Okra IgE
<b>Code</b>	OKRA
<b>Legacy Code</b>	RAF164I
<b>Interface Code</b>	3530150
<b>Notes</b>	

## Inactivate Test Without Replacement

<b>Effective Date</b>	2/25/2019
<b>Name</b>	Pemoline (Cylert), Serum/Plasma
<b>Code</b>	PEMO
<b>Legacy Code</b>	PEMO
<b>Interface Code</b>	3508520
<b>Notes</b>	

## Inactivate Test Without Replacement

<b>Effective Date</b>	2/19/2019
<b>Name</b>	Viscosity - Blood
<b>Code</b>	VIS
<b>Legacy Code</b>	VIS
<b>Interface Code</b>	3510940
<b>Notes</b>	Recommended Replacement is VISCS, Viscosity, Serum.