

As an Interpath customer who receives electronic results or sends electronic orders you may need to be notified when we update our Service Manual. Although we try to keep these changes to a minimum, laboratory medicine is an evolving industry requiring changes to our technology from time to time. Depending on the requirements of your EMR or Hospital Information System you may be required to make similar changes to your system in order to correctly process inbound electronic results and create outbound electronic orders.

If you are uncertain that you are required to update your system we recommend that you contact your vendor for more information. As your laboratory service provider we are available to participate in the discussion with your vendor so that you clearly understand the impact of these changes.

Included in this email:

- This cover letter with a summary of the changes
- Microsoft Word® Document with the detail of these changes to our Service Manual
- Interpath Master Order/Result Compendium

Additional information including our most recent Service Manual and additional contact information can be found at www.interpathlab.com

Effective Date: November 18, 2019

Order Code	Test Name	NC Name Change	CC Component Change	CPT CPT Change	SRC Specimen Requirements Change	RRC Reference Range Change	NT New Test	DT Discontinued Test	AOE Ask on Order Entry Questions
80801	Allergy - Immunocap, Adult Food Profile		◆	◆					
80018	Allergy – Immunocap, Mouse Urine Protein [IgE]						◆		
80802	Allergy - Immunocap, Pediatric Profile		◆	◆					
80845	Allergy - Immunocap, Peanut Protein Panel [IgE]		◆	◆					
80800	Allergy - Immunocap, Upper Respiratory Profile		◆	◆					
91239	Amino Acids, Plasma					◆			
91016	Amino Acids, Urine Quantative					◆			
2774	Anti-Neutrophil Cytoplasmic Antibodies (ANCA) Immunofluorescent Assay				◆				
2775	Anti-Neutrophil Cytoplasmic Antibodies (ANCA) IFA with Reflex to MPO/PR3				◆				
2776	Anti-Neutrophil Cytoplasmic Antibodies (ANCA) IFA and MPO/PR3 Antibodies				◆				
91049	Catecholamines, Urine				◆	◆			
93764	E. coli SHIGA-LIKE Toxin							◆	
2231	Estradiol					◆			
2731	H.pylori Antigen, Stool						◆		
2658	H.pylori, IgG (STAT)							◆	
91264	Helicobacter pylori Antigen, Stool							◆	
93760	Histoplasma Antigen by EIA, Serum					◆			
2689	Influenza A/B RNA (Rapid-Molecular)				◆				
3016	Lupus Anticoagulant Screen	◆							
90056	Lysozyme, Serum				◆	◆			
90078	Metanephrines Fractionated, Urine				◆	◆			
3013	Myoglobin, Urine [Qual]							◆	
3121	Parasite Blood Smear				◆				
91608	Pneumocystis jiroveci DFA			◆					
2365	Sm/RNP Antibody						◆		
2366	Smith Antibody						◆		
93847	Testosterone, Bioavailable			◆					
92160	Testosterone Free LC/MS, Females or Children			◆					

80801 Allergy - Immunocap, Adult Food Profile
CC/CPT

Specimen:																			
Collect:	One SST Also Acceptable Two Green Top (Li Heparin) Two Green Top (Na Heparin) Two Lavender (EDTA) Two Pink Top (EDTA) Two Red Top																		
Submit:	4 mL (Min:3 mL) Serum. Submit Refrigerated. Submit in a Standard Transport Tube. Also Acceptable 4 mL (Min:3 mL) Plasma. Submit Refrigerated. Submit in a Standard Transport Tube.																		
Special Handling:	Avoid Repeated Freeze/Thaw Cycles Recommend a Total IgE (Test 2274) be ordered in addition to allergen testing.																		
Stability:	Ambient: 1 Day(s); Refrigerated: 1 Week(s); Frozen: 12 Month(s); Incubated: Unacceptable																		
Methodology:	Fluorescent Enzyme Immunoassay (ImmunoCAP)																		
Performed:	Monday, Wednesday, Friday																		
Reported:	1-3 Day(s)																		
CPT Codes:	86003x15																		
Interpretive Data:	Please see report for interpretive data.																		
Components:	<table border="0"> <tr> <td>80001 - MILK, COWS</td> <td>80002 - EGG WHITE</td> </tr> <tr> <td>80003 - SOYBEAN</td> <td>80004 - WHEAT</td> </tr> <tr> <td>80005 - FISH, COD</td> <td>80006 - PEANUT</td> </tr> <tr> <td>80007 - CORN</td> <td>80008 - WALNUT</td> </tr> <tr> <td>80009 - SCALLOP</td> <td>80010 - SHRIMP</td> </tr> <tr> <td>80020 - SESAME SEED</td> <td>80064 - CLAM</td> </tr> <tr> <td>80011 - CASHEW</td> <td>80022 - HAZEL NUT</td> </tr> <tr> <td>80024 - ALMOND</td> <td>80034 - TUNA</td> </tr> <tr> <td>80035 - SALMON</td> <td></td> </tr> </table>	80001 - MILK, COWS	80002 - EGG WHITE	80003 - SOYBEAN	80004 - WHEAT	80005 - FISH, COD	80006 - PEANUT	80007 - CORN	80008 - WALNUT	80009 - SCALLOP	80010 - SHRIMP	80020 - SESAME SEED	80064 - CLAM	80011 - CASHEW	80022 - HAZEL NUT	80024 - ALMOND	80034 - TUNA	80035 - SALMON	
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Please take note of change to components.
Added: 80011 CASHEW; 80022 HAZEL NUT; 80024 ALMOND; 80034 TUNA; 80035 SALMON;
Removed: 80007 CORN; 80064 CLAM

80018 Allergy - Immunocap, Mouse Urine Protein [IgE]
NT

Specimen:	
Collect:	One SST Also Acceptable One Green Top (Li Heparin) One Green Top (Na Heparin) One Lavender (EDTA) One Pink Top (EDTA) One Red Top
Submit:	1 mL (Min:0.5 mL) Serum. Submit Refrigerated. Submit in a Standard Transport Tube. Also Acceptable 1 mL (Min:0.5 mL) Plasma. Submit Refrigerated. Submit in a Standard Transport Tube.
Special Handling:	Avoid Repeated Freeze/Thaw Cycles Recommend a Total IgE (Test 2274) be ordered in addition to allergen testing.
Stability:	Ambient: 1 Day(s); Refrigerated: 1 Week(s); Frozen: 12 Month(s); Incubated: Unacceptable
Methodology:	Fluorescent Enzyme Immunoassay (ImmunoCAP)
Performed:	Monday, Wednesday, Friday
Reported:	2-3 Day(s)

New test available.

80802 Allergy - Immunocap, Pediatric Profile
CC/CPT

Specimen:																	
Collect:	One SST Also Acceptable One Green Top (Li Heparin) One Green Top (Na Heparin) One Lavender (EDTA) One Pink Top (EDTA) One Red Top																
Submit:	3 mL (Min:2 mL) Serum. Submit Refrigerated. Submit in a Standard Transport Tube. Also Acceptable 3 mL (Min:2 mL) Plasma. Submit Refrigerated. Submit in a Standard Transport Tube.																
Special Handling:	Avoid Repeated Freeze/Thaw Cycles Recommend a Total IgE (Test 2274) be ordered in addition to allergen testing.																
Stability:	Ambient: 1 Day(s); Refrigerated: 1 Week(s); Frozen: 12 Month(s); Incubated: Unacceptable																
Methodology:	Fluorescent Enzyme Immunoassay (ImmunoCAP)																
Performed:	Monday, Wednesday, Friday																
Reported:	2-3 Day(s)																
CPT Codes:	86003x16																
Interpretive Data:	Please see report for interpretive data.																
Components:	<table border="0"> <tr> <td>80001 - MILK, COWS</td> <td>80002 - EGG WHITE</td> </tr> <tr> <td>80003 - SOYBEAN</td> <td>80004 - WHEAT</td> </tr> <tr> <td>80005 - FISH, COD</td> <td>80006 - PEANUT</td> </tr> <tr> <td>80300 - CAT DANDER EPITH</td> <td>80301 - DOG DANDER</td> </tr> <tr> <td>80330 - DERMAT. FARINAE</td> <td>80340 - COCKROACH</td> </tr> <tr> <td>80350 - ALTERNARIA TENUIS</td> <td>80331 - DERMAT. PTERO</td> </tr> <tr> <td>80010 - SHRIMP</td> <td>80008 - WALNUT</td> </tr> <tr> <td>80352 - CLADOSPORIUM</td> <td>80018 - MOUSE URINE</td> </tr> </table>	80001 - MILK, COWS	80002 - EGG WHITE	80003 - SOYBEAN	80004 - WHEAT	80005 - FISH, COD	80006 - PEANUT	80300 - CAT DANDER EPITH	80301 - DOG DANDER	80330 - DERMAT. FARINAE	80340 - COCKROACH	80350 - ALTERNARIA TENUIS	80331 - DERMAT. PTERO	80010 - SHRIMP	80008 - WALNUT	80352 - CLADOSPORIUM	80018 - MOUSE URINE
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80352 - CLADOSPORIUM	80018 - MOUSE URINE																

Please take note of change to components.
Added: 80018 MOUSE URINE

80845 Allergy - Immunocap, Peanut Protein Panel [IgE]
CC/CPT

Specimen:							
Collect:	One SST Also Acceptable One Green Top (Li Heparin) One Green Top (Na Heparin) One Lavender (EDTA) One Pink Top (EDTA) One Red Top						
Submit:	3 mL (Min:2 mL) Serum. Submit Refrigerated. Submit in a Standard Transport Tube. Also Acceptable 3 mL (Min:2 mL) Plasma. Submit Refrigerated. Submit in a Standard Transport Tube.						
Special Handling:	Avoid Repeated Freeze/Thaw Cycles Recommend a Total IgE (Test 2274) be ordered in addition to allergen testing.						
Stability:	Ambient: 1 Day(s); Refrigerated: 1 Week(s); Frozen: 12 Month(s); Incubated: Unacceptable						
Methodology:	Fluorescent Enzyme Immunoassay (ImmunoCAP)						
Performed:	Monday, Wednesday, Friday						
Reported:	2-3 Day(s)						
CPT Codes:	86008x6						
Interpretive Data:	Please see report for interpretive data.						
Components:	<table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">80311 - ARA H 1</td> <td style="width: 50%;">80312 - ARA H 2</td> </tr> <tr> <td>80313 - ARA H 3</td> <td>80314 - ARA H 8 PR-10</td> </tr> <tr> <td>80315 - ARA H 9 LTP</td> <td>80019 - ARA H 6</td> </tr> </table>	80311 - ARA H 1	80312 - ARA H 2	80313 - ARA H 3	80314 - ARA H 8 PR-10	80315 - ARA H 9 LTP	80019 - ARA H 6
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80313 - ARA H 3	80314 - ARA H 8 PR-10						
80315 - ARA H 9 LTP	80019 - ARA H 6						

Please take note of change to components.
Added: 80019 ARA H 6

80800 Allergy - Immunocap, Upper Respiratory Profile

CC/CPT

Specimen:																											
Collect:	One SST Also Acceptable Two Green Top (Li Heparin) Two Green Top (Na Heparin) Two Lavender (EDTA) Two Pink Top (EDTA) Two Red Top																										
Submit:	4 mL (Min:3 mL) Serum. Submit Refrigerated. Submit in a Standard Transport Tube. Also Acceptable 4 (Min:3) Plasma. Submit Refrigerated. Submit in a Standard Transport Tube.																										
Special Handling:	Avoid Repeated Freeze/Thaw Cycles Recommend a Total IgE (Test 2274) be ordered in addition to allergen testing.																										
Stability:	Ambient: 1 Day(s); Refrigerated: 1 Week(s); Frozen: 12 Month(s); Incubated: Unacceptable																										
Methodology:	Fluorescent Enzyme Immunoassay (ImmunoCAP)																										
Performed:	Monday, Wednesday, Friday																										
Reported:	2-3 Day(s)																										
CPT Codes:	86003x23																										
Interpretive Data:	Please see report for interpretive data.																										
Components:	<table border="0"> <tr> <td>80100 - MAPLE/BOX ELDER</td> <td>80101 - GRAY ALDER</td> </tr> <tr> <td>80102 - COMMON BIRCH</td> <td>80103 - OAK</td> </tr> <tr> <td>80104 - COTTONWOOD</td> <td>80200 - BERMUDA GRASS</td> </tr> <tr> <td>80201 - REDTOP GRASS</td> <td>80250 - MUGWORT</td> </tr> <tr> <td>80252 - PIGWEED, COMMON</td> <td>80261 - RAGWEED, COMMON</td> </tr> <tr> <td>80300 - CAT DANDER EPITH</td> <td>80301 - DOG DANDER</td> </tr> <tr> <td>80330 - DERMAT. FARINAE</td> <td>80350 - ALTERNARIA TENUIS</td> </tr> <tr> <td>80331 - DERMAT. PTERO</td> <td>80210 - TIMOTHY GRASS</td> </tr> <tr> <td>80340 - COCKROACH</td> <td>80351 - PENICILLIUM CHRYS</td> </tr> <tr> <td>80352 - CLADOSPORIUM</td> <td>80353 - ASPERGILLIUS</td> </tr> <tr> <td>80110 - ELM</td> <td>80251 - RUSSIAN THISTLE</td> </tr> <tr> <td>80256 - SHEEP SORREL</td> <td>80109 - MOUNTAIN JUNIPER</td> </tr> <tr> <td>80018 - MOUSE URINE</td> <td>80352 - CLADOSPORIUM [IGE]</td> </tr> </table>	80100 - MAPLE/BOX ELDER	80101 - GRAY ALDER	80102 - COMMON BIRCH	80103 - OAK	80104 - COTTONWOOD	80200 - BERMUDA GRASS	80201 - REDTOP GRASS	80250 - MUGWORT	80252 - PIGWEED, COMMON	80261 - RAGWEED, COMMON	80300 - CAT DANDER EPITH	80301 - DOG DANDER	80330 - DERMAT. FARINAE	80350 - ALTERNARIA TENUIS	80331 - DERMAT. PTERO	80210 - TIMOTHY GRASS	80340 - COCKROACH	80351 - PENICILLIUM CHRYS	80352 - CLADOSPORIUM	80353 - ASPERGILLIUS	80110 - ELM	80251 - RUSSIAN THISTLE	80256 - SHEEP SORREL	80109 - MOUNTAIN JUNIPER	80018 - MOUSE URINE	80352 - CLADOSPORIUM [IGE]
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Please take note of change to components.

Added: 80018 MOUSE URINE; 80352 CLADOSPORIUM

Removed: 80200 BERMUDA GRASS; 80201 REDTOP GRASS; 80261 RAGWEED, COMMON

91239 Amino Acids, Plasma
RRC

Specimen:																																									
Collect:	One Green Top (Li Heparin) Also Acceptable One Green Top (Na Heparin)																																								
Submit:	0.5 mL (Min:0.3 mL) Plasma. Submit Frozen. Submit in a Standard Transport Tube.																																								
Special Handling:	Critical Frozen Fasting Specimen is Preferred Separate aliquot required for each frozen test ordered Separate from cells ASAP Avoid buffy coat material. Additional information needed: age, gender, diet (eg. TPN therapy), drug therapy and family history. Infants and children: Draw specimen prior to feeding or 2-3 hours after a meal.																																								
Rejection Criteria:	Hemolyzed specimens																																								
Stability:	Ambient: Unacceptable; Refrigerated: 1 Day(s); Frozen: 1 Month(s); Incubated: Unacceptable																																								
Methodology:	Quantitative Liquid Chromatography-Tandem Mass Spectrometry																																								
Performed:	Mon-Fri																																								
Reported:	3-6 Day(s)																																								
CPT Codes:	82139																																								
Interpretive Data:	Please see report for interpretive data.																																								
Components:	<table border="0"> <tr> <td>93389 - ALANINE</td> <td>93424 - ALLOISOLEUCINE</td> </tr> <tr> <td>93390 - ARGININE</td> <td>93392 - ASPARTIC ACID</td> </tr> <tr> <td>93393 - CITRULLINE</td> <td>93394 - CYSTINE</td> </tr> <tr> <td>93395 - GLUTAMIC ACID</td> <td>93396 - GLUTAMINE</td> </tr> <tr> <td>93397 - GLYCINE</td> <td>93398 - HISTIDINE</td> </tr> <tr> <td>93391 - HOMOCYSTINE</td> <td>93399 - HYDROXYPROLINE</td> </tr> <tr> <td>93400 - ISOLEUCINE</td> <td>93401 - LEUCINE</td> </tr> <tr> <td>93402 - LYSINE</td> <td>93403 - METHIONINE</td> </tr> <tr> <td>93404 - ORNITHINE</td> <td>93405 - PHENYLALANINE</td> </tr> <tr> <td>93406 - PROLINE</td> <td>93407 - SERINE</td> </tr> <tr> <td>93408 - TAURINE</td> <td>93409 - THREONINE</td> </tr> <tr> <td>93410 - TYROSINE</td> <td>93411 - VALINE</td> </tr> <tr> <td>93198 - INTERPRETATION</td> <td>94167 - a-AMINO BUTYRIC</td> </tr> <tr> <td>94168 - a-AMINO ADIPIC</td> <td>94169 - ARGININOSUCCINIC</td> </tr> <tr> <td>94170 - b-AMINO ISOBUTYRIC</td> <td>94171 - b-ALANINE</td> </tr> <tr> <td>94172 - ETHANOLAMINE</td> <td>94173 - g-AMINO BUTYRIC</td> </tr> <tr> <td>94174 - SARCOSINE</td> <td>94175 - TRYPTOPHAN</td> </tr> <tr> <td>94176 - ANSERINE</td> <td>94177 - ASPARAGINE</td> </tr> <tr> <td>94178 - CYSTATHIONINE</td> <td>94179 - HOMOCITRULLINE</td> </tr> <tr> <td>94180 - HYDROXYLISINE</td> <td></td> </tr> </table>	93389 - ALANINE	93424 - ALLOISOLEUCINE	93390 - ARGININE	93392 - ASPARTIC ACID	93393 - CITRULLINE	93394 - CYSTINE	93395 - GLUTAMIC ACID	93396 - GLUTAMINE	93397 - GLYCINE	93398 - HISTIDINE	93391 - HOMOCYSTINE	93399 - HYDROXYPROLINE	93400 - ISOLEUCINE	93401 - LEUCINE	93402 - LYSINE	93403 - METHIONINE	93404 - ORNITHINE	93405 - PHENYLALANINE	93406 - PROLINE	93407 - SERINE	93408 - TAURINE	93409 - THREONINE	93410 - TYROSINE	93411 - VALINE	93198 - INTERPRETATION	94167 - a-AMINO BUTYRIC	94168 - a-AMINO ADIPIC	94169 - ARGININOSUCCINIC	94170 - b-AMINO ISOBUTYRIC	94171 - b-ALANINE	94172 - ETHANOLAMINE	94173 - g-AMINO BUTYRIC	94174 - SARCOSINE	94175 - TRYPTOPHAN	94176 - ANSERINE	94177 - ASPARAGINE	94178 - CYSTATHIONINE	94179 - HOMOCITRULLINE	94180 - HYDROXYLISINE	
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Please take note of changes to reference ranges.

Reference Range Changes (pg 8-13):

α-Aminoadipic acid Less than or equal to 4 μmol/L

α Amino-n-butyric acid Less than or equal to 40 μmol/L

Amino Acids, Plasma – Reference Range Changes:

Alanine

<u>Age</u>	<u>Reference Interval</u>
0-30 days	140-480 µmol/L
1 month-11 months	150-520 µmol/L
1 year and older	160-530 µmol/L

Alloisoleucine

Less than or equal to 5 µmol/L

Anserine

Less than or equal to 5 µmol/L

Arginine

<u>Age</u>	<u>Reference Interval</u>
0-30 days	16-140 µmol/L
1 month-11 months	35-140 µmol/L
1 year and older	35-125 µmol/L

Argininosuccinic acid

Less than or equal to 2 µmol/L

Asparagine

20-80 µmol/L

Aspartic acid

<u>Age</u>	<u>Reference Interval</u>
0-30 days	Less than or equal to 45 µmol/L
1 month-11 months	Less than or equal to 30 µmol/L
1 year and older	Less than or equal to 15 µmol/L

β-Alanine

Less than or equal to 25 µmol/L

β -Aminoisobutyric acid

<u>Age</u>	<u>Reference Interval</u>
0 day to 11 months	Less than or equal to 15 µmol/L
1 year and older	Less than or equal to 10 µmol/L

Citrulline

<u>Age</u>	<u>Reference Interval</u>
0 day to 11 months	7-40 µmol/L
1 year and older	10-45 µmol/L

Cystathionine

Less than or equal to 5 µmol/L

Amino Acids, Plasma – Reference Range Changes:

Cystine

<u>Age</u>	<u>Reference Interval</u>
0-30 days	10-60 µmol/L
1 month-11 months	10-50 µmol/L
1 year and older	10-65 µmol/L

Ethanolamine

<u>Age</u>	<u>Reference Interval</u>
0-30 days	Less than or equal to 100 µmol/L
1 month-11 months	Less than or equal to 25 µmol/L
1 year and older	Less than or equal to 15 µmol/L

γ-Amino-n-butyric acid Less than or equal to 5 µmol/L

Glutamic acid

<u>Age</u>	<u>Reference Interval</u>
0-30 days	30-240 µmol/L
1 month-11 months	30-210 µmol/L
1 year and older	15-130 µmol/L

Glutamine

<u>Age</u>	<u>Reference Interval</u>
0-30 days	295-900 µmol/L
1 month-11 months	400-850 µmol/L
1 year and older	380-680 µmol/L

Glycine

<u>Age</u>	<u>Reference Interval</u>
0-30 days	160-470 µmol/L
1 month-11 months	120-375 µmol/L
1 year and older	140-420 µmol/L

Histidine

50-130 µmol/L

Homocitrulline

Less than or equal to 5 µmol/L

Homocystine

Less than or equal to 2 µmol/L

Hydroxylysine

Less than or equal to 5 µmol/L

Amino Acids, Plasma – Reference Range Changes:

Hydroxyproline

<u>Age</u>	<u>Reference Interval</u>
0-30 days	15-90 µmol/L
1 month-11 months	10-70 µmol/L
1 year and older	5-40 µmol/L

Isoleucine

<u>Age</u>	<u>Reference Interval</u>
0-30 days	20-110 µmol/L
1 month and older	30-120 µmol/L

Leucine

<u>Age</u>	<u>Reference Interval</u>
0-11 months	50-180 µmol/L
1 year and older	60-180 µmol/L

Lysine

<u>Age</u>	<u>Reference Interval</u>
0-30 days	70-270 µmol/L
1 month-11 months	80-260 µmol/L
1 year and older	85-230 µmol/L

Methionine

<u>Age</u>	<u>Reference Interval</u>
0-11 months	15-55 µmol/L
1 year and older	15-40 µmol/L

Ornithine

<u>Age</u>	<u>Reference Interval</u>
0-30 days	30-180 µmol/L
1 month-11 months	30-140 µmol/L
1 year and older	25-110 µmol/L

Phenylalanine

<u>Age</u>	<u>Reference Interval</u>
0-30 days	30-95 µmol/L
1 month-11 months	30-90 µmol/L
1 year and older	30-82 µmol/L

Amino Acids, Plasma – Reference Range Changes:

Proline

<u>Age</u>	<u>Reference Interval</u>
0-30 days	110-340 µmol/L
1 month-11 months	100-320 µmol/L
1 year and older	90-350 µmol/L

Sarcosine Less than or equal to 5 µmol/L

Serine

<u>Age</u>	<u>Reference Interval</u>
0-30 days	90-340 µmol/L
1 month-11 months	90-275 µmol/L
1 year and older	60-170 µmol/L

Taurine

<u>Age</u>	<u>Reference Interval</u>
0-30 days	30-250 µmol/L
1 month-11 months	30-170 µmol/L
1 year and older	30 -130 µmol/L

Threonine

<u>Age</u>	<u>Reference Interval</u>
0-30 days	60-400 µmol/L
1 month-11 months	60-310 µmol/L
1 year and older	60-190 µmol/L

Tryptophan

<u>Age</u>	<u>Reference Interval</u>
0-30 days	15-75 µmol/L
1 month-11 months	20-85 µmol/L
1 year and older	25-80 µmol/L

Tyrosine

<u>Age</u>	<u>Reference Interval</u>
0-30 days	30-140 µmol/L
1 month-11 months	30-130 µmol/L
1 year and older	35-110 µmol/L

Amino Acids, Plasma – Reference Range Changes:

Valine

<u>Age</u>	<u>Reference Interval</u>
0-30 days	80-270 $\mu\text{mol/L}$
1 month-11 months	90-310 $\mu\text{mol/L}$
1 year and older	120-320 $\mu\text{mol/L}$

91016 Amino Acids, Urine Quantative
RRC

Specimen:																																							
Collect:	Random Urine in Sterile Specimen Container																																						
Submit:	4 mL (Min:3 mL) Random Urine in Sterile Specimen Container. Submit Frozen.																																						
Special Handling:	Critical Frozen Separate aliquot required for each frozen test ordered First morning sample preferred. Avoid dilute specimens. State gender, age, diet, drug therapy and family history.																																						
Rejection Criteria:	Specimen not submitted frozen																																						
Stability:	Ambient: Unacceptable; Refrigerated: 1 Day(s); Frozen: 1 Month(s); Incubated: Unacceptable																																						
Methodology:	Quantitative Liquid Chromatography-Tandem Mass Spectrometry																																						
Performed:	Mon-Fri																																						
Reported:	4-8 Day(s)																																						
CPT Codes:	82139																																						
Interpretive Data:	Please see report for interpretive data.																																						
Components:	<table border="0"> <tr> <td>93008 - CREAT, UR</td> <td>93227 - ALANINE</td> </tr> <tr> <td>93236 - ARGININE</td> <td>93170 - ASPARAGINE</td> </tr> <tr> <td>93171 - ASPARTIC ACID</td> <td>93224 - CITRULLINE</td> </tr> <tr> <td>93025 - CYSTINE</td> <td>93179 - GLUTAMINE</td> </tr> <tr> <td>93178 - GLUTAMIC ACID</td> <td>93226 - GLYCINE</td> </tr> <tr> <td>93235 - HISTIDINE</td> <td>93256 - HYDROXYPROLINE</td> </tr> <tr> <td>93230 - ISOLEUCINE</td> <td>93231 - LEUCINE</td> </tr> <tr> <td>93234 - LYSINE</td> <td>93229 - METHIONINE</td> </tr> <tr> <td>93026 - ORNITHINE</td> <td>93233 - PHENYLALANINE</td> </tr> <tr> <td>93225 - PROLINE</td> <td>93223 - SERINE</td> </tr> <tr> <td>93517 - TAURINE</td> <td>93222 - THREONINE</td> </tr> <tr> <td>93232 - TYROSINE</td> <td>93228 - VALINE</td> </tr> <tr> <td>93307 - INTERPRETATION</td> <td>94185 - a-AMINO BUTYRIC</td> </tr> <tr> <td>94186 - a-AMINO ADIPIC</td> <td>94187 - ARGININOSUCCINIC</td> </tr> <tr> <td>94188 - b-AMINO ISOBUTYRIC</td> <td>94189 - b-ALANINE</td> </tr> <tr> <td>94190 - ETHANOLAMINE</td> <td>94191 - g-AMINO BUTYRIC</td> </tr> <tr> <td>94192 - SARCOSINE</td> <td>94193 - TRYPTOPHAN</td> </tr> <tr> <td>94194 - ANSERINE</td> <td>94195 - CYSTATHIONINE</td> </tr> <tr> <td>94196 - HOMOCITRULLINE</td> <td>94197 - HYDROXYLYSINE</td> </tr> </table>	93008 - CREAT, UR	93227 - ALANINE	93236 - ARGININE	93170 - ASPARAGINE	93171 - ASPARTIC ACID	93224 - CITRULLINE	93025 - CYSTINE	93179 - GLUTAMINE	93178 - GLUTAMIC ACID	93226 - GLYCINE	93235 - HISTIDINE	93256 - HYDROXYPROLINE	93230 - ISOLEUCINE	93231 - LEUCINE	93234 - LYSINE	93229 - METHIONINE	93026 - ORNITHINE	93233 - PHENYLALANINE	93225 - PROLINE	93223 - SERINE	93517 - TAURINE	93222 - THREONINE	93232 - TYROSINE	93228 - VALINE	93307 - INTERPRETATION	94185 - a-AMINO BUTYRIC	94186 - a-AMINO ADIPIC	94187 - ARGININOSUCCINIC	94188 - b-AMINO ISOBUTYRIC	94189 - b-ALANINE	94190 - ETHANOLAMINE	94191 - g-AMINO BUTYRIC	94192 - SARCOSINE	94193 - TRYPTOPHAN	94194 - ANSERINE	94195 - CYSTATHIONINE	94196 - HOMOCITRULLINE	94197 - HYDROXYLYSINE
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Please take note of changes to reference ranges.

Reference Range Changes (pg 14-23):

α-Amino adipic acid
Age

0-2 months
 3-11 months
 1-2 years
 3-5 years
 6-11 years
 12 years and older

Reference Interval

Less than or equal to 700 μmol/g creatinine
 Less than or equal to 520 μmol/g creatinine
 Less than or equal to 470 μmol/g creatinine
 Less than or equal to 200 μmol/g creatinine
 Less than or equal to 125 μmol/g creatinine
 Less than or equal to 100 μmol/g creatinine

Amino Acids, Urine Quantative – Reference Range Changes:

 α -Amino-n-butyric acid

<u>Age</u>	<u>Reference Interval</u>
0-2 months	Less than or equal to 120 $\mu\text{mol/g}$ creatinine
3-11 months	Less than or equal to 80 $\mu\text{mol/g}$ creatinine
1-2 years	Less than or equal to 70 $\mu\text{mol/g}$ creatinine
3-5 years	Less than or equal to 60 $\mu\text{mol/g}$ creatinine
6-11 years	Less than or equal to 50 $\mu\text{mol/g}$ creatinine
12 years and older	Less than or equal to 25 $\mu\text{mol/g}$ creatinine

Alanine

<u>Age</u>	<u>Reference Interval</u>
0-2 months	475-3330 $\mu\text{mol/g}$ creatinine
3-11 months	270-3020 $\mu\text{mol/g}$ creatinine
1-2 years	170-1750 $\mu\text{mol/g}$ creatinine
3-5 years	100-1000 $\mu\text{mol/g}$ creatinine
6-11 years	80-930 $\mu\text{mol/g}$ creatinine
12 years and older	60 -500 $\mu\text{mol/g}$ creatinine

Anserine

<u>Age</u>	<u>Reference Interval</u>
0-2 months	Less than or equal to 60 $\mu\text{mol/g}$ creatinine
3-11 months	Less than or equal to 300 $\mu\text{mol/g}$ creatinine
1-2 years	Less than or equal to 720 $\mu\text{mol/g}$ creatinine
3-5 years	Less than or equal to 385 $\mu\text{mol/g}$ creatinine
6-11 years	Less than or equal to 480 $\mu\text{mol/g}$ creatinine
12 years and older	Less than or equal to 250 $\mu\text{mol/g}$ creatinine

Arginine

<u>Age</u>	<u>Reference Interval</u>
0-2 months	Less than or equal to 470 $\mu\text{mol/g}$ creatinine
3-11 months	Less than or equal to 340 $\mu\text{mol/g}$ creatinine
1-2 years	Less than or equal to 390 $\mu\text{mol/g}$ creatinine
3-5 years	Less than or equal to 270 $\mu\text{mol/g}$ creatinine
6-11 years	Less than or equal to 160 $\mu\text{mol/g}$ creatinine
12 years and older	Less than or equal to 100 $\mu\text{mol/g}$ creatinine

Amino Acids, Urine Quantative – Reference Range Changes:

Argininosuccinic acid

<u>Age</u>	<u>Reference Interval</u>
0-2 months	Less than or equal to 110 µmol/g creatinine
3-11 months	Less than or equal to 100 µmol/g creatinine
1-2 years	Less than or equal to 80 µmol/g creatinine
3-5 years	Less than or equal to 65 µmol/g creatinine
6-11 years	Less than or equal to 50 µmol/g creatinine
12 years and older	Less than or equal to 40 µmol/g creatinine

Asparagine

<u>Age</u>	<u>Reference Interval</u>
0-2 months	55-1445 µmol/g creatinine
3-11 months	45-910 µmol/g creatinine
1-2 years	80-675 µmol/g creatinine
3-5 years	50-345 µmol/g creatinine
6-11 years	40-390 µmol/g creatinine
12 years and older	25-180 µmol/g creatinine

Aspartic acid

<u>Age</u>	<u>Reference Interval</u>
0-2 months	Less than or equal to 370 µmol/g creatinine
3-11 months	Less than or equal to 160 µmol/g creatinine
1-2 years	Less than or equal to 65 µmol/g creatinine
3 years and older	Less than or equal to 25 µmol/g creatinine

β-Alanine

<u>Age</u>	<u>Reference Interval</u>
0-5 months	Less than or equal to 250 µmol/g creatinine
6 months and older	Less than or equal to 125 µmol/g creatinine

β-Aminoisobutyric acid

<u>Age</u>	<u>Reference Interval</u>
0-2 months	Less than or equal to 6780 µmol/g creatinine
3-11 months	Less than or equal to 6000 µmol/g creatinine
1-2 years	Less than or equal to 5500 µmol/g creatinine
3-5 years	Less than or equal to 3490 µmol/g creatinine
6-11 years	Less than or equal to 1720 µmol/g creatinine
12 years and older	Less than or equal to 1200 µmol/g creatinine

Amino Acids, Urine Quantitative – Reference Range Changes:

Citrulline

<u>Age</u>	<u>Reference Interval</u>
0-2 months	Less than or equal to 145 $\mu\text{mol/g}$ creatinine
3-11 months	Less than or equal to 75 $\mu\text{mol/g}$ creatinine
1-2 years	Less than or equal to 40 $\mu\text{mol/g}$ creatinine
3 years and older	Less than or equal to 15 $\mu\text{mol/g}$ creatinine

Cystathionine

<u>Age</u>	<u>Reference Interval</u>
0-2 months	Less than or equal to 235 $\mu\text{mol/g}$ creatinine
3-11 months	Less than or equal to 60 $\mu\text{mol/g}$ creatinine
1-2 years	Less than or equal to 75 $\mu\text{mol/g}$ creatinine
3-5 years	Less than or equal to 35 $\mu\text{mol/g}$ creatinine
6-11 years	Less than or equal to 25 $\mu\text{mol/g}$ creatinine
12 years and older	Less than or equal to 60 $\mu\text{mol/g}$ creatinine

Cystine

<u>Age</u>	<u>Reference Interval</u>
0-2 months	Less than or equal to 870 $\mu\text{mol/g}$ creatinine
3-11 months	Less than or equal to 300 $\mu\text{mol/g}$ creatinine
1-2 years	Less than or equal to 150 $\mu\text{mol/g}$ creatinine
3-5 years	Less than or equal to 125 $\mu\text{mol/g}$ creatinine
6-11 years	Less than or equal to 100 $\mu\text{mol/g}$ creatinine
12 years and older	Less than or equal to 150 $\mu\text{mol/g}$ creatinine

Ethanolamine

<u>Age</u>	<u>Reference Interval</u>
0-2 months	390-6560 $\mu\text{mol/g}$ creatinine
3-11 months	320-1410 $\mu\text{mol/g}$ creatinine
1-2 years	270-1160 $\mu\text{mol/g}$ creatinine
3-5 years	245-825 $\mu\text{mol/g}$ creatinine
6-11 years	130-770 $\mu\text{mol/g}$ creatinine
12 years and older	100-510 $\mu\text{mol/g}$ creatinine

 γ -Amino-n-butyric acid

<u>Age</u>	<u>Reference Interval</u>
0-2 months	Less than or equal to 60 $\mu\text{mol/g}$ creatinine
3-5 months	Less than or equal to 50 $\mu\text{mol/g}$ creatinine
6 months and older	Less than or equal to 25 $\mu\text{mol/g}$ creatinine

Amino Acids, Urine Quantative – Reference Range Changes:

Glutamic acid

<u>Age</u>	<u>Reference Interval</u>
0-2 months	Less than or equal to 560 µmol/g creatinine
3-11 months	Less than or equal to 360 µmol/g creatinine
1-2 years	Less than or equal to 190 µmol/g creatinine
3-5 years	Less than or equal to 80 µmol/g creatinine
6-11 years	Less than or equal to 70 µmol/g creatinine
12 years and older	Less than or equal to 52 µmol/g creatinine

Glutamine

<u>Age</u>	<u>Reference Interval</u>
0-2 months	380-3860 µmol/g creatinine
3-11 months	310-3240 µmol/g creatinine
1-2 years	340-2225 µmol/g creatinine
3-5 years	300-1525 µmol/g creatinine
6-11 years	165-1530 µmol/g creatinine
12 years and older	100-665 µmol/g creatinine

Glycine

<u>Age</u>	<u>Reference Interval</u>
0-2 months	1620-19725 µmol/g creatinine
3-11 months	915-10220 µmol/g creatinine
1-2 years	775-6600 µmol/g creatinine
3-5 years	600-4600 µmol/g creatinine
6-11 years	310-5700 µmol/g creatinine
12 years and older	230 – 3510 µmol/g creatinine

Histidine

<u>Age</u>	<u>Reference Interval</u>
0-2 months	325-4940 µmol/g creatinine
3-11 months	290-4850 µmol/g creatinine
1-2 years	340-4420 µmol/g creatinine
3-5 years	315-2460 µmol/g creatinine
6-11 years	160-2380 µmol/g creatinine
12 years and older	80-1130 µmol/g creatinine

Amino Acids, Urine Quantative – Reference Range Changes:

Homocitrulline

<u>Age</u>	<u>Reference Interval</u>
0-2 months	Less than or equal to 675 $\mu\text{mol/g}$ creatinine
3-11 months	Less than or equal to 220 $\mu\text{mol/g}$ creatinine
1-2 years	Less than or equal to 150 $\mu\text{mol/g}$ creatinine
3-5 years	Less than or equal to 100 $\mu\text{mol/g}$ creatinine
6-11 years	Less than or equal to 70 $\mu\text{mol/g}$ creatinine
12 years and older	Less than or equal to 40 $\mu\text{mol/g}$ creatinine

Hydroxylysine

<u>Age</u>	<u>Reference Interval</u>
0-2 months	Less than or equal to 510 $\mu\text{mol/g}$ creatinine
3-11 months	Less than or equal to 240 $\mu\text{mol/g}$ creatinine
1-2 years	Less than or equal to 85 $\mu\text{mol/g}$ creatinine
3-5 years	Less than or equal to 50 $\mu\text{mol/g}$ creatinine
6-11 years	Less than or equal to 40 $\mu\text{mol/g}$ creatinine
12 years and older	Less than or equal to 30 $\mu\text{mol/g}$ creatinine

Hydroxyproline

<u>Age</u>	<u>Reference Interval</u>
0-2 months	Less than or equal to 6100 $\mu\text{mol/g}$ creatinine
3-11 months	Less than or equal to 1270 $\mu\text{mol/g}$ creatinine
1-2 years	Less than or equal to 100 $\mu\text{mol/g}$ creatinine
3-5 years	Less than or equal to 35 $\mu\text{mol/g}$ creatinine
6-11 years	Less than or equal to 20 $\mu\text{mol/g}$ creatinine
12 years and older	Less than or equal to 30 $\mu\text{mol/g}$ creatinine

Isoleucine

<u>Age</u>	<u>Reference Interval</u>
0-2 months	Less than or equal to 360 $\mu\text{mol/g}$ creatinine
3-11 months	Less than or equal to 140 $\mu\text{mol/g}$ creatinine
1-2 years	Less than or equal to 100 $\mu\text{mol/g}$ creatinine
3-5 years	Less than or equal to 70 $\mu\text{mol/g}$ creatinine
6-11 years	Less than or equal to 60 $\mu\text{mol/g}$ creatinine
12 years and older	Less than or equal to 45 $\mu\text{mol/g}$ creatinine

Amino Acids, Urine Quantative – Reference Range Changes:

Leucine

<u>Age</u>	<u>Reference Interval</u>
0-2 months	20-420 $\mu\text{mol/g}$ creatinine
3-11 months	20-195 $\mu\text{mol/g}$ creatinine
1-2 years	20-190 $\mu\text{mol/g}$ creatinine
3-5 years	20-110 $\mu\text{mol/g}$ creatinine
6-11 years	20-100 $\mu\text{mol/g}$ creatinine
12 years and older	Less than or equal to 45 $\mu\text{mol/g}$ creatinine

Lysine

<u>Age</u>	<u>Reference Interval</u>
0-2 months	120-2270 $\mu\text{mol/g}$ creatinine
3-11 months	55-1260 $\mu\text{mol/g}$ creatinine
1-2 years	45-930 $\mu\text{mol/g}$ creatinine
3-5 years	40-475 $\mu\text{mol/g}$ creatinine
6-11 years	25-440 $\mu\text{mol/g}$ creatinine
12 years and older	Less than or equal to 355 $\mu\text{mol/g}$ creatinine

Methionine

<u>Age</u>	<u>Reference Interval</u>
0-2 months	Less than or equal to 100 $\mu\text{mol/g}$ creatinine
3-11 months	Less than or equal to 60 $\mu\text{mol/g}$ creatinine
1-2 years	Less than or equal to 50 $\mu\text{mol/g}$ creatinine
3-11 years	Less than or equal to 30 $\mu\text{mol/g}$ creatinine
12 years and older	Less than or equal to 20 $\mu\text{mol/g}$ creatinine

Ornithine

<u>Age</u>	<u>Reference Interval</u>
0-2 months	Less than or equal to 475 $\mu\text{mol/g}$ creatinine
3-11 months	Less than or equal to 150 $\mu\text{mol/g}$ creatinine
1-2 years	Less than or equal to 70 $\mu\text{mol/g}$ creatinine
3 years and older	Less than or equal to 30 $\mu\text{mol/g}$ creatinine

Amino Acids, Urine Quantative – Reference Range Changes:

Phenylalanine

<u>Age</u>	<u>Reference Interval</u>
0-2 months	45-360 µmol/g creatinine
3-11 months	65-370 µmol/g creatinine
1-2 years	50-350 µmol/g creatinine
3-5 years	35-170 µmol/g creatinine
6-11 years	30-140 µmol/g creatinine
12 years and older	15-85 µmol/g creatinine

Proline

<u>Age</u>	<u>Reference Interval</u>
0-2 months	130-2340 µmol/g creatinine
3-11 months	Less than or equal to 1190 µmol/g creatinine
1-2 years	Less than or equal to 170 µmol/g creatinine
3-5 years	Less than or equal to 60 µmol/g creatinine
6-11 years	Less than or equal to 40 µmol/g creatinine
12 years and older	Less than or equal to 35 µmol/g creatinine

Sarcosine

<u>Age</u>	<u>Reference Interval</u>
0-2 months	Less than or equal to 300 µmol/g creatinine
3-11 months	Less than or equal to 75 µmol/g creatinine
1 year and older	Less than or equal to 25 µmol/g creatinine

Serine

<u>Age</u>	<u>Reference Interval</u>
0-2 months	70-4125 µmol/g creatinine
3-11 months	275-2730 µmol/g creatinine
1-2 years	390-1890 µmol/g creatinine
3-5 years	260-990 µmol/g creatinine
6-11 years	130-1100 µmol/g creatinine
12 years and older	90-470 µmol/g creatinine

Amino Acids, Urine Quantative – Reference Range Changes:

Taurine

<u>Age</u>	<u>Reference Interval</u>
0-2 months	95-9800 µmol/g creatinine
3-11 months	Less than or equal to 7400 µmol/g creatinine
1-2 years	Less than or equal to 9000 µmol/g creatinine
3-5 years	Less than or equal to 4400 µmol/g creatinine
6-11 years	Less than or equal to 3800 µmol/g creatinine
12 years and older	Less than or equal to 3200 µmol/g creatinine

Threonine

<u>Age</u>	<u>Reference Interval</u>
0-2 months	125-2890 µmol/g creatinine
3-11 months	50-1300 µmol/g creatinine
1-2 years	85-910 µmol/g creatinine
3-5 years	50-380 µmol/g creatinine
6-11 years	40-470 µmol/g creatinine
12 years and older	25-250 µmol/g creatinine

Tryptophan

<u>Age</u>	<u>Reference Interval</u>
0-2 months	25-395 µmol/g creatinine
3-11 months	45-390 µmol/g creatinine
1-2 years	45-325 µmol/g creatinine
3-5 years	35-150 µmol/g creatinine
6-11 years	20-180 µmol/g creatinine
12 years and older	15-95 µmol/g creatinine

Tyrosine

<u>Age</u>	<u>Reference Interval</u>
0-2 months	50-870 µmol/g creatinine
3-11 months	70-700 µmol/g creatinine
1-2 years	65-560 µmol/g creatinine
3-5 years	40-300 µmol/g creatinine
6-11 years	40-280 µmol/g creatinine
12 years and older	15-150 µmol/g creatinine

Amino Acids, Urine Quantative – Reference Range Changes:

Valine

<u>Age</u>	<u>Reference Interval</u>
0-2 months	40-425 $\mu\text{mol/g}$ creatinine
3-11 months	30-250 $\mu\text{mol/g}$ creatinine
1-2 years	40-280 $\mu\text{mol/g}$ creatinine
3-5 years	30-160 $\mu\text{mol/g}$ creatinine
6-11 years	20-120 $\mu\text{mol/g}$ creatinine
12 years and older	Less than or equal to 55 $\mu\text{mol/g}$ creatinine

2774 Anti-Neutrophil Cytoplasmic Antibodies (ANCA) Immunofluorescent Assay SRC

Specimen:	
Collect:	One SST Also Acceptable One Red Top
Submit:	2 mL (Min:1 mL) Serum. Submit Frozen. Submit in a Standard Transport Tube.
Rejection Criteria:	Grossly Hemolyzed Samples Grossly Lipemic Samples Heat inactivated Microbially Contaminated Particulate matter
Stability:	Ambient: 8 Hour(s); Refrigerated: 2 Day(s); Frozen: 1 Month(s); Incubated: Unacceptable
Methodology:	Indirect Immunofluorescent Assay
Performed:	Tuesday, Thursday
Reported:	3-4 Day(s) Positive results will be titered and reported next day.
CPT Codes:	86256
Interpretive Data:	Please see report for interpretive data.
Components:	2781 - ANCA IFA TITER 2783 - ANCA IFA PATTERN

Please take note of changes to performed and reported dates. Negative titers will result as <1:20.

2775 Anti-Neutrophil Cytoplasmic Antibodies (ANCA) IFA with Reflex to MPO/PR3 SRC

Specimen:	
Collect:	One SST Also Acceptable One Red Top
Submit:	2 mL (Min:1 mL) Serum. Submit Frozen. Submit in a Standard Transport Tube.
Special Handling:	If titer is positive ($\geq 1:20$) reflex to MPO/PR3 (ANCA) Antibodies will be performed. Additional charges will apply.
Rejection Criteria:	Grossly Hemolyzed Samples Grossly Lipemic Samples Heat inactivated Microbially Contaminated Particulate matter
Stability:	Ambient: 8 Hour(s); Refrigerated: 2 Day(s); Frozen: 1 Month(s); Incubated: Unacceptable
Methodology:	Indirect Immunofluorescent Assay
Performed:	Tuesday, Thursday
Reported:	3-4 Day(s) Positive results will be titered and reported next day.
CPT Codes:	86256
Interpretive Data:	Please see report for interpretive data.
Components:	2782 - ANCA IFA TITER 2783 - ANCA IFA PATTERN

Please take note of changes to performed and reported dates. Negative titers will result as <1:20.

2776 Anti-Neutrophil Cytoplasmic Antibodies (ANCA) IFA and MPO/PR3 Antibodies SRC

Specimen:	
Collect:	One SST Also Acceptable One Red Top
Submit:	2 mL (Min:1 mL) Serum. Submit Frozen. Submit in a Standard Transport Tube.
Rejection Criteria:	Grossly Hemolyzed Samples Grossly Lipemic Samples Heat inactivated Microbially Contaminated Particulate matter
Stability:	Ambient: 8 Hour(s); Refrigerated: 2 Day(s); Frozen: 1 Month(s); Incubated: Unacceptable
Methodology:	Enzyme-Linked ImmunoSorbent Assay (ELISA); Indirect Immunofluorescent Assay
Performed:	Tuesday, Thursday
Reported:	3-4 Day(s) Positive results will be titered and reported next day.
CPT Codes:	86255 83520x2
Interpretive Data:	Please see report for interpretive data.
Components:	2781 - ANCA IFA TITER 2783 - ANCA IFA PATTERN 2277 - MYELOPEROXIDASE 2279 - PROTEINASE 3

Please take note of changes to performed and reported dates. Negative titers (Test # 2781) will result as <1:20.

91049 Catecholamines, Urine
SRC/RRC

Specimen:															
Collect:	Timed Urine in Timed Urine Container Also Acceptable Random Urine in Sterile Specimen Container														
Submit:	4 mL (Min:3 mL) Aliquot(s) Timed Urine in Sterile Specimen Container. Submit Refrigerated. Also Acceptable 4 mL (Min:3 mL) Random Urine in Sterile Specimen Container. Submit Refrigerated.														
Special Handling:	24 HR Urine Collection Preferred Keep Specimen Refrigerated During Collection State Collection Time State Volume Patient Preparation: Drugs and medications may affect results and should be discontinued for at least 72 hours prior to specimen collection, if possible. Specimen Preparation: Thoroughly mix entire collection (24-hour or Random) in one container. Transfer a 4 mL aliquot to an Standard Transport Tube. (Min: 2.5 mL) Catecholamines are not stable above pH 7. The pH of such specimens must be adjusted by the addition of 6M HCl acid or sulfamic acid prior to transport. A pH less than 2 can cause assay interference. Record total volume and collection time interval on transport tube and test request form. Specimen preservation can be extended to 1 month refrigerated by performing one of the following: Option 1: Transfer a 4 mL aliquot (Min: 2.5 mL) to an Standard Transport Tube. Adjust pH to 2.0-4.0 with 6M HCl. Option 2: Transfer a 4 mL aliquot (Min: 2.5 mL) to an Standard Transport Tube containing 20 mg sulfamic acid.														
Rejection Criteria:	Room temperature specimens. Specimens preserved with boric acid or acetic acid. Specimens with pH greater than 7.														
Stability:	Ambient: Unacceptable; Refrigerated: 1 Week(s); Frozen: 6 Month(s); Incubated: Unacceptable														
Methodology:	Quantitative Liquid Chromatography-Tandem Mass Spectrometry														
Performed:	Sun-Sat														
Reported:	2-5 Day(s)														
CPT Codes:	82384														
Interpretive Data:	Please see report for interpretive data.														
Components:	<table border="0"> <tr> <td>93008 - CREAT, UR</td> <td>93009 - CREATININE</td> </tr> <tr> <td>93177 - INTERPRETATION</td> <td>93193 - DOPAMINE ug/D</td> </tr> <tr> <td>93194 - NOREPI ug/D</td> <td>93195 - EPINEPHERINE ug/D</td> </tr> <tr> <td>93388 - URINE VOLUME</td> <td>93518 - HOURS COLLECTED</td> </tr> <tr> <td>93604 - DOPAMINE ug/g CRT</td> <td>93605 - NOREPI ug/g CRT</td> </tr> <tr> <td>93606 - EPINEPH ug/g CRT</td> <td>90205 - EPINEPHERINE ug/L</td> </tr> <tr> <td>90206 - NOREPI ug/L</td> <td>90207 - DOPAMINE ug/L</td> </tr> </table>	93008 - CREAT, UR	93009 - CREATININE	93177 - INTERPRETATION	93193 - DOPAMINE ug/D	93194 - NOREPI ug/D	93195 - EPINEPHERINE ug/D	93388 - URINE VOLUME	93518 - HOURS COLLECTED	93604 - DOPAMINE ug/g CRT	93605 - NOREPI ug/g CRT	93606 - EPINEPH ug/g CRT	90205 - EPINEPHERINE ug/L	90206 - NOREPI ug/L	90207 - DOPAMINE ug/L
93008 - CREAT, UR	93009 - CREATININE														
93177 - INTERPRETATION	93193 - DOPAMINE ug/D														
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93606 - EPINEPH ug/g CRT	90205 - EPINEPHERINE ug/L														
90206 - NOREPI ug/L	90207 - DOPAMINE ug/L														

Please take note of changes to submit volumes, special handling, stability, and reference ranges.

Reference Range Changes:
Dopamine

<u>Age</u>	<u>Dopamine</u>
0-3 years	Not Established
4-10 years	80-440 µg/d
11-17 years	100-496 µg/d
18 years and older	71-485 µg/d

Catecholamines, Urine - Reference Range Changes:

Norepinephrine

<u>Age</u>	<u>Norepinephrine</u>
0-3 years	Not Established
4-10 years	7-65 µg/d
11-17 years	12-96 µg/d
18 years and older	14-120 µg/d

93764 E. coli SHIGA-LIKE Toxin

DT

Please take note this test is being discontinued. Utilize tests 4110 E.coli Shiga-like Toxin ,and 4113 Stool Culture and E.coli Shiga-like Toxin.

2231 Estradiol
RRC

Specimen:	
Collect:	One SST Also Acceptable One Green Top (Li Heparin) One Lavender (EDTA) One Pink Top (EDTA) One Red Top
Submit:	1 mL (Min:0.5 mL) Serum. Submit Refrigerated. Submit in a Standard Transport Tube. Also Acceptable 1 mL (Min:0.5 mL) Plasma. Submit Refrigerated. Submit in a Standard Transport Tube.
Special Handling:	Allow specimen to clot completely at room temperature Avoid Repeated Freeze/Thaw Cycles For patients receiving therapy with high biotin doses (>5 mg/day), no laboratory test specimen should be collected until at least 8 hours after the last biotin administration. Due to the risk of cross reactivity, the Estradiol assay should not be used when monitoring Estradiol levels in patients being treated with Fulvestrant. Interference leads to falsely elevated Estradiol results. An alternative method such as LC-MS (ESTRADIOL, ULTRA Test-93162), which is not expected to show cross reactivity to Fulvestrant, should be used to measure Estradiol concentrations and assess the menopausal status of these patients.
Stability:	Ambient: 12 Hour(s); Refrigerated: 2 Day(s); Frozen: 6 Month(s); Incubated: Unacceptable
Methodology:	Electrochemiluminescence Immunoassay (ECLIA)
Performed:	Mon-Fri
Reported:	1-3 Day(s)
CPT Codes:	82670
Interpretive Data:	Estradiol Reference ranges: Adult Male: ≤ 52.2 Female Reference Ranges: 26.7-156 Follicular phase 48.1-314 Ovulation phase 33.1-298 Luteal phase <25-49.9 Postmenopause 154-3065 1st trimester pregnancy 1561-18950 2nd trimester pregnancy 10030->30000 3rd trimester pregnancy Please note Reference Range updated as of 11/18/2019. Biotin in specimens taken from patients on high-dose biotin therapy or supplements may interfere with this test and cause inaccurate test results. It is recommended that for patients receiving therapy with high biotin doses (> 5 mg/day), no laboratory test specimen should be collected until at least 8 hours after the last biotin administration.

Please take note of change to reference range
Reference range changes:

Adult Male: ≤ 52.2

Adult Pre-menopausal Female: ≤ 370

Adult Post-menopausal Female: ≤ 50

2731 H.pylori Antigen, Stool
NT

Specimen:	
Collect:	Random Stool in Sterile Specimen Container
Submit:	5 gm (Min:1 gm) Random Stool in Sterile Specimen Container. Submit Frozen.
Stability:	Ambient: 1 Day(s); Refrigerated: 3 Day(s); Frozen: 1 Month(s); Incubated: Unacceptable
Methodology:	Qualitative Enzyme Immunoassay
Performed:	Monday, Thursday
Reported:	2-3 Day(s)
Interpretive Data:	General Reference Range : negative

New test available.
2658 H. pylori, IgG (STAT)
DT
Please take note this test is being discontinued.
91264 Helicobacter pylori Antigen, Stool
DT
Please take note this test is being discontinued.
93760 Histoplasma Antigen by EIA, Serum
RRC

Specimen:	
Collect:	One SST Also Acceptable One Red Top
Submit:	2 mL (Min:1 mL) Serum. Submit Refrigerated. Submit in a Standard Transport Tube.
Special Handling:	Allow specimen to clot completely at room temperature Avoid Repeated Freeze/Thaw Cycles
Rejection Criteria:	Urine
Stability:	Ambient: Unacceptable; Refrigerated: 2 Week(s); Frozen: 1 Month(s); Incubated: Unacceptable
Methodology:	Quantitative Enzyme Immunoassay
Performed:	Monday, Wednesday, Friday
Reported:	2-5 Day(s)
CPT Codes:	87385
Interpretive Data:	Please see report for interpretive data.
Components:	93972 - HISTOPLASMA AG. 93973 - HISTOPLASMA INTERP

Please take note of change to reference range.
Reference Range: Not Detected

2689 Influenza A/B RNA (Rapid-Molecular)
SRC

Specimen:	
Collect:	Nasal Secretions in Culturette-Dry Transport Swab Also Acceptable Nasal Secretions in Culturette-Nasopharyngeal
Submit:	Nasal Secretions in Culturette-Dry Transport Swab. Submit Refrigerated. Also Acceptable Nasal Secretions in Viral Transport Media. Submit Refrigerated.
Special Handling:	To collect a sample, carefully insert the swab into the nostril exhibiting the most visible drainage, or the nostril that is most congested if drainage is not visible. Nasal Swab Sample: Using gentle rotation, push the swab until resistance is met at the level of the turbinates (less than one inch into the nostril). Rotate the swab several times against the nasal wall then slowly remove from the nostril. Nasopharyngeal Swab Sample: Pass the swab directly backwards without tipping the swab head up or down. The nasal passage runs parallel to the floor, not parallel to the bridge of the nose. Using gentle rotation, insert the swab into the anterior nares parallel to the palate advancing the swab into the nasopharynx, leave in place for a few seconds, then slowly rotate the swab as it is being withdrawn. The swab should be passed a distance halfway of that from the nose to the tip of the ear (about half the length of the swab). DO NOT USE FORCE while inserting the swab, it should travel smoothly with minimal resistance. Transporting sample: If transport of nasal or nasopharyngeal swab samples is required, elute the swab into 0.5 to 3.0 mL of viral transport media by rotating the swab in the liquid for 10 seconds within 1 hour of collection. Stability for samples in viral transport media: Ambient - 8 hours; Refrigerated - 3 days
Rejection Criteria:	Specimen collected on Calcium Alginate, Puritan Purflock Ultra flocked swabs, and Copan Standard Rayon Tip Swabs are unacceptable.
Stability:	Ambient: 2 Hour(s); Refrigerated: 1 Day(s); Frozen: Unacceptable; Incubated: Unacceptable
Methodology:	Nicking Enzyme Amplification Reaction
Performed:	Mon-Fri
Reported:	1-2 Day(s)
CPT Codes:	87502
Interpretive Data:	Please see report for interpretive data.
Components:	2693 - INFLUENZA A RNA 2694 - INFLUENZA B RNA

Please take note of changes to alternate collection and submission requirements, special handling, and rejection criteria.

3016 Lupus Anticoagulant Screening Panel
NC

Please take note of change to test name.

90056 Lysozyme, Serum
SRC/RRC

Specimen:	
Collect:	One SST Also Acceptable One Red Top
Submit:	1 mL (Min:0.4 mL) Serum. Submit Refrigerated. Submit in a Standard Transport Tube.
Special Handling:	Separate from cells within 2 hours of collection
Rejection Criteria:	Hemolyzed specimens Icteric specimen Lipemic Samples
Stability:	Ambient: Unacceptable; Refrigerated: 5 Day(s); Frozen: 1 Month(s); Incubated: Unacceptable
Methodology:	Quantitative Enzyme-Linked Immunosorbent Assay
Performed:	Tuesday, Thursday, Sunday
Reported:	2-6 Day(s)
CPT Codes:	85549

Please take note of change to stability and reference range.

Reference Range: Less than or equal to 2.75 µg/m

90078 Metanephrines Fractionated, Urine
SRC/RRC

Specimen:													
Collect:	One Timed Urine in Timed Urine Container Also Acceptable One Random Urine in Sterile Specimen Container												
Submit:	4 mL (Min:3 mL) Timed Urine. Submit Refrigerated. Submit in a Standard Transport Tube. Also Acceptable 4 mL (Min:3 mL) Random Urine. Submit Refrigerated. Submit in a Standard Transport Tube.												
Special Handling:	Thoroughly mix entire collection (24-hour or Random) in one container. Transfer a 4 mL aliquot to an Standard Transport Tube. Adjust pH to 2.0-4.0 with 6M HCl. (Min: 2.5 mL) A pH lower than 2 can cause assay interference. Record total volume and collection time interval on transport tube and test request form. Specimen preservation can be extended to 1 month refrigerated by performing one of the following: Option 1: Transfer a 4 mL aliquot (Min: 2.5 mL) to an Standard Transport Tube. Adjust pH to 2.0-4.0 with 6M HCl. Option 2: Transfer a 4 mL aliquot (Min: 2.5 mL) to an Standard Transport Tube containing 20 mg sulfamic acid.												
Rejection Criteria:	Specimens preserved with boric acid or acetic acid.												
Stability:	Ambient: Unacceptable; Refrigerated: 2 Week(s); Frozen: 1 Month(s); Incubated: Unacceptable												
Methodology:	Quantitative High Performance Liquid Chromatography-Tandem Mass Spectrometry												
Performed:	Sun-Sat												
Reported:	2-5 Day(s)												
CPT Codes:	83835												
Interpretive Data:	Please see report for interpretive data.												
Components:	<table border="0"> <tr> <td>93518 - HOURS COLLECTED</td> <td>93388 - URINE VOLUME</td> </tr> <tr> <td>90079 - METANEPHRINE</td> <td>90088 - NORMETANEPHRINE</td> </tr> <tr> <td>90089 - METANEPHRINE</td> <td>90096 - METANEPHRINE</td> </tr> <tr> <td>90097 - NORMETANEPHRINE</td> <td>90098 - NORMETANEPHRINE</td> </tr> <tr> <td>93610 - INTERPRETATION</td> <td>93008 - CREAT, UR</td> </tr> <tr> <td>93009 - CREATININE</td> <td></td> </tr> </table>	93518 - HOURS COLLECTED	93388 - URINE VOLUME	90079 - METANEPHRINE	90088 - NORMETANEPHRINE	90089 - METANEPHRINE	90096 - METANEPHRINE	90097 - NORMETANEPHRINE	90098 - NORMETANEPHRINE	93610 - INTERPRETATION	93008 - CREAT, UR	93009 - CREATININE	
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90097 - NORMETANEPHRINE	90098 - NORMETANEPHRINE												
93610 - INTERPRETATION	93008 - CREAT, UR												
93009 - CREATININE													

Please take note of changes to special handling, and reference ranges.
Reference Range Changes:
Metanephrine

<u>Male Age</u>	<u>Male Range</u>	<u>Female Age</u>	<u>Female Range</u>
0-6 years	Not Established	0-6 years	Not Established
7-12 years	45-273 µg/d	7-17 years	40-209 µg/d
13-17 years	56-298 µg/d	18 years and older	36-229 µg/d
18 years and older	55-320 µg/d		

Normetanephrine

<u>Male Age</u>	<u>Male Range</u>	<u>Female Age</u>	<u>Female Range</u>
0-6 years	Not Established	0-6 years	Not Established
7-12 years	58-670 µg/d	7-12 years	48-474 µg/d
13-17 years	82-553 µg/d	13-17 years	65-406 µg/d
18-29 years	81-667 µg/d	18 years and older	95-650 µg/d
30 years and older	114-865 µg/d		

3013 Myoglobin, Urine [Qual]
Please take note this test is being discontinued.

DT

3121 Parasite Blood Smear

SRC

Specimen:	
Collect:	One Lavender (EDTA) Also Acceptable One Green Top (Li Heparin) One Pink Top (EDTA)
Submit:	2 mL (Min:1 mL) Whole blood. Submit Ambient.
Stability:	Ambient: 2 Day(s); Refrigerated: Unacceptable; Frozen: Unacceptable; Incubated: Unacceptable
Methodology:	Microscopy
Performed:	Mon-Fri
Reported:	1-3 Day(s)
CPT Codes:	87207
Interpretive Data:	General Reference Range : negative

Please take note of changes to stability.

91608 Pneumocystis jiroveci DFA

CPT

Specimen:	
Collect:	One Respiratory Secretion(s) in Sterile Specimen Container
Submit:	5 mL (Min:0.5 mL) Respiratory Secretion(s) in Sterile Specimen Container. Submit Refrigerated.
Rejection Criteria:	Tissue Slide Swab
Stability:	Ambient: 2 Hour(s); Refrigerated: 1 Week(s); Frozen: Unacceptable; Incubated: Unacceptable
Methodology:	Direct Fluorescent Antibody Stain
Performed:	Sun-Sat
Reported:	2-3 Day(s)
CPT Codes:	87015; 87281
Interpretive Data:	Please see report for interpretive data.
Components:	91673 - SOURCE 91608 - PNEUMO JIROVECII

Please take note of changes to CPT coding.

2365 Sm/RNP Antibody
NT

Specimen:	
Collect:	One SST Also Acceptable One Red Top
Submit:	1 mL (Min:0.5 mL) Serum. Submit Refrigerated. Submit in a Standard Transport Tube.
Special Handling:	Separate from cells ASAP
Rejection Criteria:	Grossly Hemolyzed Samples Grossly Lipemic Samples Heat inactivated Microbial Contamination Particulate matter
Stability:	Ambient: 8 Hour(s); Refrigerated: 2 Day(s); Frozen: 1 Month(s); Incubated: Unacceptable
Methodology:	Enzyme-Linked ImmunoSorbent Assay (ELISA)
Performed:	Monday, Wednesday, Thursday
Reported:	1-4 Day(s)
CPT Codes:	86235
Interpretive Data:	<p>Sm/RNP Ab Reference Ranges: <20 Units Negative 20-39 Units Weak Positive 40-80 Units Moderate Positive >80 Units Strong Positive</p> <p>A positive Sm/RNP Ab result indicates the presence of antibodies reactive with the Smith (Sm) protein and/or ribonuclear protein (RNP). This Sm/RNP assay cannot distinguish between Anti-Sm and Anti-RNP activity. If Anti-Sm and Anti-RNP activity is desired, order ANTI-ENA (test 2372) panel.</p>

This test will now be orderable on its own.

2366 Smith Antibody
NT

Specimen:	
Collect:	One SST Also Acceptable One Red Top
Submit:	1 mL (Min:0.5 mL) Serum. Submit Refrigerated. Submit in a Standard Transport Tube.
Special Handling:	Separate from cells ASAP
Rejection Criteria:	Grossly Hemolyzed Samples Grossly Lipemic Samples Heat inactivated Microbial Contamination Particulate matter
Stability:	Ambient: 8 Hour(s); Refrigerated: 2 Day(s); Frozen: 1 Month(s); Incubated: Unacceptable
Methodology:	Enzyme-Linked ImmunoSorbent Assay (ELISA)
Performed:	Monday, Wednesday, Thursday
Reported:	1-4 Day(s)
CPT Codes:	86235
Interpretive Data:	Smith Ab Reference Range: <20 Units Negative 20-39 Units Weak Positive 40-80 Units Moderate Positive >80 Units Strong Positive Please note: Reference range changed as of 07/24/2017.

This test will now be orderable on its own.

93847 Testosterone, Bioavailable
CPT

Specimen:	
Collect:	One SST Also Acceptable One Green Top (Li Heparin) One Red Top
Submit:	2 mL (Min:0.6 mL) Serum. Submit Refrigerated. Submit in a Standard Transport Tube. Also Acceptable 2 mL (Min:0.6 mL) Plasma. Submit Refrigerated. Submit in a Standard Transport Tube.
Special Handling:	Collect specimen between 6-10 a.m.
Stability:	Ambient: 2 Day(s); Refrigerated: 1 Week(s); Frozen: 2 Month(s); Incubated: Unacceptable
Methodology:	Quantitative Electrochemiluminescent Immunoassay
Performed:	Sun-Sat
Reported:	1-2 Day(s)
CPT Codes:	84402; 84403; 84270 84403
Interpretive Data:	Please see report for interpretive data.
Components:	93848 - TESTO, FREE 93849 - TESTO, %FREE 93850 - TESTO, ADULT MALE 93851 - TESTO, BIOAVAILABLE 93852 - SHBG

Please take note of changes to CPT coding.
92160 Testosterone Free LC/MS, Females or Children
CPT

Specimen:	
Collect:	One SST Also Acceptable One Green Top (Li Heparin) One Green Top (Na Heparin) One Red Top
Submit:	1 mL (Min:0.8 mL) Serum. Submit Refrigerated. Submit in a Standard Transport Tube. Also Acceptable 1 mL (Min:0.8 mL) Plasma. Submit Refrigerated. Submit in a Standard Transport Tube.
Special Handling:	Separate serum from cells ASAP or within 2 hours of collection Patient Preparation: Collect between 6-10 a.m. Remarks: This test is suggested for women and children due to an improved sensitivity of testosterone by LC-MS/MS.
Rejection Criteria:	EDTA plasma
Stability:	Ambient: 1 Day(s); Refrigerated: 1 Week(s); Frozen: 6 Month(s); Incubated: Unacceptable
Methodology:	Electrochemiluminescent Immunoassay; Quantitative High Performance Liquid Chromatography-Tandem Mass Spectrometry
Performed:	Sun-Sat
Reported:	2-5 Day(s)
CPT Codes:	84402

Please take note of changes to CPT coding.