

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 <a href="https://www.interpathlab.com">www.interpathlab.com</a>

Effective Date: July 19, 2018



		NC	CC	CPT	SRC	RRC	NT	DT	AOE
Order Code	Test Name	Name Change	Component Change	CPT Change	Specimen Requirements Change	Reference Range Change	New Test	<b>Discontinued</b> <b>Test</b>	Ask on Order Entry
92088	Aquaporin-4 Receptor Antibody, IgG with Reflex to Titer						•		
2009	Bilirubin, Direct					•			
2142	Bilirubin, Direct Newborn					<b>•</b>			
1155	Calcium/Creatinine, Urine Quant						<b>♦</b>		
1016	Calcium, Serum or Plasma					•			
4020	Culture, Urine				<b>•</b>				
2700	Hepatitis B Virus, Quant by PCR				•				
2680	Hepatitis C RNA Quant by PCR				•				
2685	Hepatitis C RNA Quant by PCR w/Reflex				•				
2690	HIV-1 RNA Quant by PCR				<b>♦</b>				
2695	HIV-1 RNA Quant by PCR w/Reflex				<b>•</b>				
90069	Schistosoma Antibody, IgG				•				
92069	Striated Muscle Antibodies, IgG with Reflex to Titer						•		
92083	Thiopurine Metabolites by LC-MS/MS						•		
92101	Thiopurine Methyltransferase, RBC Activity						•		
92096	Zika Virus Antibody Capture (MAC), by ELISA						•		<b>•</b>
92086	Zika Virus by PCR, Blood						<b>♦</b>		
92093	Zika Virus by PCR, Urine						<b>♦</b>		



92088 Aquaporin-4 Receptor Antibody, IgG with Reflex to Titer

NT

Specimen:	
Collect:	One SST
	Also Acceptable One Red Top
Submit:	1 mL (Min:0.2 mL) Serum. Submit Refrigerated. Submit in a Standard Transport Tube.
Special Handling:	If Positive then IgG titer is reported. Additional charges apply.
Rejection Criteria:	Contaminated specimen
Stability:	Ambient: 2 Day(s); Refrigerated: 2 Week(s); Frozen: 24 Month(s); Incubated: Unacceptable
Methodology:	Semi-Quantitative Indirect Fluorescent Antibody
Performed:	Wednesday
Reported:	1-9 Day(s)
CPT Codes:	86255

New test available.

### 2009 Bilirubin, Direct

**RRC** 

Specimen:			
Collect:	One SST		
	Also Acceptable One Green Top (Li Heparin) One Green Top (Na Heparin) 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:	Protect from Light		
Stability:	Ambient: 8 Hour(s); Refrigerated: 3 Day(s); Frozen: 3 Month(s); Incubated: Unacceptable		
Methodology:	Colorimetric; Kinetic		
Performed:	Mon-Fri		
Reported:	1-3 Day(s)		
CPT Codes:	82248		
Interpretive Data	: General Reference Range : 0.0-0.6 mg/dL		
	Male Reference Ranges Female Reference Ranges		
	0 - 4 week(s) : 0-0.6 mg/dL		
	4 week(s) - 150 year(s) : 0-0.3 mg/dL 4 week(s) - 150 year(s) : 0-0.3 mg/dL		

Please take note of change in reference range.



#### 2142 Bilirubin, Direct Newborn

**RRC** 

Specimen:				
Collect:	One SST			
	Also Acceptable			
	One Green Top (Li Heparin)			
	One Green Top (Na Heparin)			
Submit:	One Red Top	0.1 - 141 - 104 - 1 - 1 - 1 - 1 - 1 - 1 - 1		
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 S	Standard Transport Tube.		
Special Handling:	Protect from Light	<u> </u>		
Stability:	Ambient: 8 Hour(s); Refrigerated: 3 Day(s); Frozen: 3 Month(s	Ambient: 8 Hour(s); Refrigerated: 3 Day(s); Frozen: 3 Month(s); Incubated: Unacceptable		
Methodology:	Colorimetric; Kinetic			
Performed:	Mon-Fri			
Reported:	1-2 Day(s)			
CPT Codes:	82248			
Interpretive Data:	General Reference Range : 0.0-0.6 mg/dL			
-				
	Male Reference Ranges	Female Reference Ranges		
	0 - 4 week(s) : 0-0.6 mg/dL	0 - 4 week(s) : 0-0.6 mg/dL		
	4 week(s) - 150 year(s) : 0-0.3 mg/dL	week(s)- 150 year(s) : 0-0.3 mg/dL		

Please take note of change in reference range.

### 1155 Calcium/Creatinine, Urine Quant

NT

Specimen:			
Collect:	Timed Urine in Timed Urine Container		
Submit:	20 mL (Min:5 mL) Timed Urine in Sterile Specimen Container. Submit Refrigerated.		
Special Handling:	24 HR Urine Collection Only Avoid Repeated Freeze/Thaw Cycles Keep Specimen Refrigerated During Collection State Volume State Weight Calcium only: acidify urine pH to 2 with 6NHCL (no	o lower than 1.5)	
Stability:	Ambient: 2 Day(s); Refrigerated: 6 Day(s); Frozen	: 1 Month(s); Incubated: Unacceptable	
Methodology:	Colorimetric; Kinetic		
Performed:	Mon-Fri		
Reported:	1-3 Day(s)		
Interpretive Data:	Please see report for interpretive data.		
Components:	2450 - CALCIUM, URINE 2490 - VOLUME (ML) 2486 - WEIGHT IN KG 1134 - CA/CREAT RATIO	2493 - CALCIUM, URINE 2417 - CREATININE, URINE 2498 - CREATININE, URINE	

New panel available.



#### 1016 Calcium, Serum or Plasma

RRC

Specimen:	
Collect:	One SST
	Also Acceptable One Green Top (Li Heparin)
	One Green Top (Na Heparin) 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:	Separate from cells ASAP
Rejection Criteria:	Grossly Hemolyzed Samples
Stability:	Ambient: 7 Day(s); Refrigerated: 22 Day(s); Frozen: 12 Month(s); Incubated: Unacceptable
Methodology:	Colorimetric; Kinetic
Performed:	Mon-Fri
Reported:	1-3 Day(s)
CPT Codes:	82310
Interpretive Data	: General Reference Range : 8.5-10.3 mg/dL

Please take note of change in reference range.

### 4020 Culture, Urine

SRC

Specimen:		
Collect: Random Urine in Sterile Specimen Container		
	Also Acceptable Random Urine in Urine Vacutainer	
Submit:	15 mL (Min:5 mL) Random Urine in Sterile Specimen Container. Submit Refrigerated.	
	Also Acceptable 5 mL (Min:3 mL) Random Urine in Urine Vacutainer. Submit Refrigerated.	
Special Handling:	Clean catch midstream or catheter collection in sterile container.	
	Urine in Urine Vacutainer: Submit refrigerated (48 hours) or ambient (48 hours).	
Stability:	Ambient: 1 Hour(s); Refrigerated: 2 Day(s); Frozen: Unacceptable; Incubated: Unacceptable	
Methodology:	Culture	
Performed:	Sun-Sat	
Reported:	2-3 Day(s)	
CPT Codes:	87086	
Interpretive Data:	Please see report for interpretive data.	
Components:	4020 - URINE CULTURE 4909 - REVIEW INDICATED	

Please take note of stability for Urine Vacutainer in special handling.



### 2700 Hepatitis B Virus, Quant by PCR

**SRC** 

Specimen:		
Collect:	One SST	
	Also Acceptable One Lavender (EDTA) One Pink Top (EDTA)	
Submit:	3 mL (Min:1 mL) Serum. Submit Frozen. Submit in a Standard Transport Tube.	
	Also Acceptable 3 mL (Min:1 mL) Plasma. Submit Frozen. Submit in a Standard Transport Tube.	
Special Handling:	Samples can be thawed and frozen up to 5 times. Separate from cells within 6 hours	
Rejection Criteria:	Heparinized specimens	
Stability:	Ambient: 24 Hour(s); Refrigerated: 5 Day(s); Frozen: 2 Month(s); Incubated: Unacceptable	
Methodology:	Transcription Mediated Amplification (TMA)	
Performed:	Tuesday	
Reported:	2-8 Day(s)	
CPT Codes:	87517	
Interpretive Data:	Please see report for interpretive data.	
Components:	2703 - HBV QUANT 2704 - HBV LOG	

Please take note of changes in stability and methodology.

### 2680 Hepatitis C RNA Quant by PCR

**SRC** 

Specimen:		
One SST		
Also Acceptable		
Two Lavender (EDTA)		
One Pink Top (EDTA)		
One Red Top		
4 mL (Min:3 mL) Serum. Submit Frozen. Submit in a Standard Transport Tube.		
Also Acceptable		
4 mL (Min:3 mL) Plasma. Submit Frozen. Submit in a Standard Transport Tube.		
Separate aliquot required for each frozen test ordered		
Samples can be thawed and frozen up to 5 times.		
Separate from cells within 6 hours		
This test should only be used to monitor patients with confirmed Hepatitis C, NOT for the diagnosis of HCV.		
Ambient: 24 Hour(s); Refrigerated: 5 Day(s); Frozen: 2 Month(s); Incubated: Unacceptable		
Transcription Mediated Amplification (TMA)		
Monday, Wednesday, Friday		
3-8 Day(s)		
87522		
Please see report for interpretive data.		
2681 - HCV 2682 - HCV		

Please take note of changes in stability and methodology.



#### 2685 Hepatitis C RNA Quant by PCR w/Reflex

SRC

Specimen:	
Collect:	One SST
	Also Acceptable
	Two Lavender (EDTA)
	One Pink Top (EDTA)
	One Red Top
Submit:	4 mL (Min:3 mL) Serum. Submit Frozen. Submit in a Standard Transport Tube.
	Also Acceptable
	4 mL (Min:3 mL) Plasma. Submit Frozen. Submit in a Standard Transport Tube.
Special Handling:	Separate aliquot required for each frozen test ordered
	Separate from cells ASAP
	Samples can be thawed and frozen up to 5 times.
	Separate from cells within 6 hours
	This test should only be used to monitor patients with confirmed Hepatitis C, NOT for the diagnosis of HCV.
	Reflexes to HCV Genotype (test #2706) if greater than 1000 copies or 3.0 log. Additional charges will apply.
Stability:	Ambient: 24 Hour(s); Refrigerated: 5 Day(s); Frozen: 2 Month(s); Incubated: Unacceptable
Methodology:	Transcription Mediated Amplification (TMA)
Performed:	Monday, Wednesday, Friday
Reported:	3-8 Day(s)
CPT Codes:	87522
Interpretive Data	Please see report for interpretive data.
Components:	2686 - HCV 2687 - HCV

Please take note of changes in stability and methodology.

### 2690 HIV-1 RNA Quant by PCR

**SRC** 

Specimen:			
Collect:	Two Lavender (EDTA)		
	Also Acceptable Two Pink Top (EDTA)		
Submit:	4 mL (Min:3 mL) Plasma. Submit Frozen. Submit in a Standard Transport Tube.		
Special Handling:	Separate aliquot required for each frozen test ordered Separate from cells within 6 hours		
Stability:	Ambient: 24 Hour(s); Refrigerated: 5 Day(s); Frozen: 3 Month(s); Incubated: Unacceptable		
Methodology:	Transcription Mediated Amplification (TMA)		
Performed:	Tuesday, Friday		
Reported:	3-8 Day(s)		
CPT Codes:	87536		
Interpretive Data	nterpretive Data: Please see report for interpretive data.		
Components:	2691 - HIV 2692 - HIV		

Please take note of changes in stability, methodology, and LOINC (see attached compendium).



#### 2695 HIV-1 RNA Quant by PCR w/Reflex

SRC

Specimen:			
Collect:	Two Lavender (EDTA)		
Submit:	4 mL (Min:3 mL) Plasma. Submit Frozen. Submit in a Standard Transport Tube.		
Special Handling:	Avoid Repeated Freeze/Thaw Cycles Separate aliquot required for each frozen test ordered Separate from cells within 6 hours Reflexes to HIV Genotype (test # 93676) if greater than 1000 copies or 3.0 log. Additional charges will apply.		
Stability:	Ambient: 24 Hour(s); Refrigerated: 5 Day(s); Frozen: 3 Month(s); Incubated: Unacceptable		
Methodology:	Transcription Mediated Amplification (TMA)		
Performed:	Tuesday, Friday		
Reported:	3-8 Day(s)		
CPT Codes:	87536		
Interpretive Data:	nterpretive Data: Please see report for interpretive data.		
Components:	2696 - HIV 2697 - HIV		

Please take note of changes in stability, methodology, and LOINC (see attached compendium).

### 90069 Schistosoma Antibody, IgG

**SRC** 

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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.	
Rejection Criteria:	Grossly Hemolyzed Samples Grossly Lipemic Samples	
Stability:	Ambient: Unacceptable; Refrigerated: 1 Month(s); Frozen: 1 Month(s); Incubated: Unacceptable	
Methodology:	Qualitative Enzyme Immunoassay	
Performed:	Varies	
Reported:	4-9 Day(s)	
CPT Codes:	86682	

Please take note of changes in rejection criteria, stability, methodology, performed dates and reported dates.



### 92069 Striated Muscle Antibodies, IgG with Reflex to Titer

NT

Specimen:		
Collect:	One SST	
	Also Acceptable One Red Top	
Submit:	1 mL (Min:0.2 mL) Serum. Submit Refrigerated. Submit in a Standard Transport Tube.	
Special Handling:	Avoid Repeated Freeze/Thaw Cycles Separate serum from cells ASAP or within 2 hours of collection If Striated Muscle Abs detected, a titer will be added. Additional charges apply.	
Rejection Criteria:	Grossly Lipemic Samples Hemolyzed specimens Plasma Contaminated specimens	
Stability:	Ambient: 2 Day(s); Refrigerated: 2 Week(s); Frozen: 1 Month(s); Incubated: Unacceptable	
Methodology:	Semi-Quantitative Indirect Fluorescent Antibody	
Performed:	Mon-Fri	
Reported:	2-6 Day(s)	
CPT Codes:	86255	

New test available.

### 92083 Thiopurine Metabolites by LC-MS/MS

Specimen:		
Collect:	Two Lavender (EDTA)	
	Also Acceptable One Pink Top (EDTA)	
Submit:	5 mL (Min:3 mL) Whole blood. Submit Refrigerated. Submit in a Standard Transport Tube.	
Special Handling:	Send Sunday - Tuesday only.	
Rejection Criteria:	Hemolyzed specimens	
Stability:	Ambient: 1 Day(s); Refrigerated: 5 Day(s); Frozen: Unacceptable; Incubated: Unacceptable	
Methodology:	Quantitative Liquid Chromatography-Tendem Mass Spectrometry	
Performed:	Varies	
Reported:	3-8 Day(s)	
CPT Codes:	80299	
Interpretive Data:	Please see report for interpretive data.	
Components:	92084 - 6-THIOGUANINE 92085 - 6-MMP	

New panel available.



#### 92101 Thiopurine Methyltransferase, RBC Activity

NT

Specimen:		
Collect:	One Lavender (EDTA)	
	Also Acceptable One Green Top (Li Heparin) One Green Top (Na Heparin) One Pink Top (EDTA)	
Submit:	5 mL (Min:3 mL) Whole blood. Submit Refrigerated. Submit in a Standard Transport Tube.	
Rejection Criteria:	Frozen whole blood Hemolyzed specimens	
Stability:	Ambient: 3 Hour(s); Refrigerated: 6 Day(s); Frozen: Unacceptable; Incubated: Unacceptable	
Methodology:	Enzymatic; Quantitative Liquid Chromatography-Tandem Mass Spectrometry	
Performed:	Monday, Wednesday, Friday	
Reported:	4-6 Day(s)	

New test available.

### 92096 Zika Virus Antibody Capture (MAC), by ELISA

NT/AOE

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	Avoid Repeated Freeze/Thaw Cycles	
Handling:	Separate serum from cells ASAP or within 2 hours of collection	
	Parallel testing is preferred. Mark specimen plainly as "acute or convalescent." Convalescent specimens must be recieved within	
	30 days of acute specimens.	
Submit Patient History for Zika Virus Testing with Order.		
Rejection	Grossly Lipemic Samples	
Criteria:	Heat inactivated	
	Hemolyzed specimens	
	Contaminated Specimens	
Stability:	Ambient: 2 Day(s); Refrigerated: 2 Week(s); Frozen: 12 Month(s); Incubated: Unacceptable	
Methodology:	Semi-Quantitative Enzyme-Linked Immunosorbent Assay	
Performed:	Monday, Wednesday, Friday	
Reported:	2-7 Day(s)	
CPT Codes:	86794	
Interpretive	Please see report for interpretive data.	
Data:		
Components:	92097 - ZIKA VIRUS IGM 92098 - ZIKA - PREGNANT	
	92099 - ZIKA - EXPOSURE 92100 - ZIKA - SYMPTOMS	

#### New panel available.

#### **AOE Questions:**

- 1152 Pregnant?
- 1153 Relevant Zika virus Exposure?
- 1154 Symptoms consistent with Zika virus?



### 92086 Zika Virus by PCR, Blood

NT

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:	State Source	
Rejection Criteria:	Urine	
Stability:	Ambient: Unacceptable; Refrigerated: 5 Day(s); Frozen: 6 Week(s); Incubated: Unacceptable	
Methodology:	Qualitative Polymerase Chain Reaction (PCR)	
Performed:	Monday, Wednesday, Friday	
Reported:	2-5 Day(s)	
CPT Codes:	87662	
Interpretive Data:	Please see report for interpretive data.	
Components:	92090 - ZIKA BLOOD SOURCE 92091 - ZIKA VIRUS BY PCR	

New panel available.

### 92093 Zika Virus by PCR, Urine

NT

Specimen:		
Collect:	One Random Urine in Sterile Specimen Container	
	Also Acceptable One Timed Urine in Sterile Specimen Container	
Submit:	1 mL (Min:0.5 mL) Random Urine in Sterile Specimen Container. Submit Frozen.	
	Also Acceptable	
	1 mL (Min:0.5 mL) Aliquot(s) Timed Urine in Sterile Specimen Container. Submit Frozen.	
Special Handling:	State Source	
Rejection Criteria:	Serum	
Stability:	Ambient: Unacceptable; Refrigerated: 5 Day(s); Frozen: 6 Week(s); Incubated: Unacceptable	
Methodology:	Qualitative Polymerase Chain Reaction (PCR)	
Performed:	Monday, Wednesday, Friday	
Reported:	2-5 Day(s)	
CPT Codes:	87662	
Interpretive Data:	Please see report for interpretive data.	
Components:	92094 - ZIKA URINE SOURCE 92095 - ZIKA VIRUS BY PCR	

New panel available.



The tests in the following table have been updated to have Trace-Free Element Tubes as the required submit container to match the special handling instructions.

Test #	Name
91303	Aluminum
91309	Arsenic, Urine
91037	Cadmium Exposure Panel - OSHA
91039	Cadmium, Urine
91056	Chromium, Serum
94093	Cobalt, Serum or Plasma
91069	Copper, Serum
91070	Copper, Urine
91119	Heavy Metals Panel, Urine
90006	lodine, Serum
9669	Magnesium, RBC
91162	Mercury, Urine
91448	Selenium
91237	Zinc, Serum