



## Interpath Laboratory, Inc. Test File Update

---

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

Additional information including our most recent Service Manual and additional contact information can be found at [www.interpathlab.com](http://www.interpathlab.com)

**Effective Date: February 21, 2017**

---

Order Code	Test Name	NC	CC	CPT	SRC	RRC	NT	DT	AOE
		Name Change	Component Change	CPT Change	Specimen Requirements Change	Reference Range Change	New Test	Discontinued Test	Ask on Order Entry Questions
93588	Brucella Antibody							◆	
91390	Brucella Antibody						◆		
91050	CD4 Panel		◆						
90202	Free T4 by Equilibrium Dialysis						◆		
2845	HIV 1/2 Antigen and Antibodies, Fourth Generation	◆		◆	◆				
91291	HLA-DQB Genotyping							◆	
90279	Kidney Stone Risk Panel II		◆						
91572	Malaria Abs, IgG							◆	
91573	Polio Antibodies							◆	
90297	Poliovirus (Types 1, 3) Antibodies						◆		
91456	Rabies Antibody, IgG							◆	
91212	T-Cell Immunodeficiency Profile [Flow Cytometry]		◆						
90203	Testosterone LC/MS, Females or Children						◆		
2755	Thyroglobulin IgG				◆	◆			
1416	Thyroid Autoantibody Group				◆	◆			
2754	Thyroid Peroxidase IgG				◆	◆			
2628	Treponemal Antibody, IgG							◆	
1003	Treponema pallidum (Syphilis) Screening Cascade	◆							
14470	Unexplained Fatigue Panel		◆		◆				

**93588 Brucella Antibody**
**DT**
**91390 Brucella Antibody**
**NT**

<b>Specimen:</b>	
Collect:	<b>One SST</b>  Also Acceptable One Red Top
Submit:	<b>1 mL (Min:0.2 mL) Serum. Submit Refrigerated. Submit in a Standard Transport Tube.</b>
Special Handling:	Avoid freeze and thaw cycles. If acute and convalescent samples being submitted, label as such. Convalescent sample must be received in lab within 30 days.
Rejection Criteria:	Bacterially Contaminated Samples Grossly Hemolyzed Samples Grossly Lipemic Samples Heat inactivated
Stability:	Ambient: 2 Day(s); Refrigerated: 2 Week(s); Frozen: 6 Month(s); Incubated: Unacceptable
<b>Methodology:</b>	Agglutination
<b>Performed:</b>	Mon-Fri
<b>Reported:</b>	3-5 Day(s)
<b>CPT Codes:</b>	86622

**91050 CD4 Panel**
**CC**

<b>Specimen:</b>	
Collect:	<b>One Lavender (EDTA)</b>  Also Acceptable One Green Top (Li Heparin) One Green Top (Na Heparin) One Pink Top (EDTA)
Submit:	<b>4 mL (Min:0.5 mL) Whole blood. Submit Ambient.</b>
Special Handling:	Critical Ambient Remarks: Specimens must be analyzed within stability times provided. Some medications may affect immunophenotyping results and should be listed on the patient test request form.
Rejection Criteria:	Clotted Specimen Hemolyzed specimens
Stability:	Ambient: 3 Day(s); Refrigerated: Unacceptable; Frozen: Unacceptable; Incubated: Unacceptable
<b>Methodology:</b>	Quantitative Flow Cytometry
<b>Performed:</b>	Sun-Sat
<b>Reported:</b>	2-3 Day(s)
<b>CPT Codes:</b>	86361
<b>Interpretive Data:</b>	Please see report for interpretive data.
<b>Components:</b>	93330 - ABS CD4 <span style="float: right;"><u>92016 - %CD4</u></span> 93312 - LYMPH SUBSET INFO

**Please remove component 90227 %CD4 and replace with 92016 %CD4.**

**90202 Free T4 by Equilibrium Dialysis**
**NT**

<b>Specimen:</b>	
Collect:	<b>One SST</b>  Also Acceptable One Red Top
Submit:	<b>2 mL (Min:0.3 mL) Serum. Submit Refrigerated. Submit in a Standard Transport Tube.</b>
Rejection Criteria:	Plasma
Stability:	Ambient: 4 Day(s); Refrigerated: 2 Week(s); Frozen: 1 Month(s); Incubated: Unacceptable
<b>Methodology:</b>	High Performance Liquid Chromatography/Tandem Mass Spectrometry; Quantitative Equilibrium Dialysis
<b>Performed:</b>	Tuesday, Thursday, Sunday
<b>Reported:</b>	3-6 Day(s)
<b>CPT Codes:</b>	84439

**2845 HIV 1/2 Antigen and Antibodies, Fourth Generation**
**CPT/NC/SRC**

<b>Specimen:</b>	
Collect:	<b>One SST</b>  Also Acceptable One Green Top (Li Heparin) One Green Top (Na Heparin) One Lavender (EDTA) One Pink Top (EDTA) One Red Top
Submit:	<b>1 mL (Min:0.5 mL) Serum. Submit Refrigerated. Submit in a Standard Transport Tube.</b>  Also Acceptable 1 mL (Min:0.5 mL) Plasma. Submit Refrigerated. Submit in a Standard Transport Tube.
Special Handling:	Minimize air exposure Separate from cells ASAP  All repeatedly reactive HIV Antibody results will reflex to test HIV 1/2 Antibody Confirmation (test# 2855). Additional charges will apply.
Rejection Criteria:	Bacterially Contaminated Samples Grossly Hemolyzed Samples Heat inactivated
Stability:	Ambient: 3 Day(s); Refrigerated: 1 Week(s); Frozen: 1 Week(s); Incubated: Unacceptable
<b>Methodology:</b>	Chemiluminescence Microparticle Immunoassay (CMIA)
<b>Performed:</b>	Sunday, Mon-Fri
<b>Reported:</b>	1-3 Day(s)
<b>CPT Codes:</b>	87389
<b>Interpretive Data:</b>	General Reference Range : non-reactive

**Please take note to special handling, rejection criteria, stability, methodology, and CPT Codes.**

**Effective Date: March 8, 2017**

Per Centers for Disease Control and Prevention (CDC) recommendations, we are moving to a fourth generation combined (antigen and antibody) HIV test, which is more accurate than the third generation (antibody only) assay.

**91291 HLA-DQB Genotyping**
**DT**

**90279 Kidney Stone Risk Panel II**
**CC**

<b>Specimen:</b>																															
Collect:	<b>One Timed Urine Container</b>																														
Submit:	<b>Timed Urine in Timed Urine Container. Submit Refrigerated.</b>																														
Special Handling:	Specimen Preparation: Transport four separate 4 mL aliquots from a well-mixed 24-hour urine collection using Calculi Risk/Supersaturation Urine Collection Kit (ARUP supply# 46007). Aliquot according to the following specifications: 1st aliquot (pH 2): Transfer 4 mL urine into a Sulfamic Acid Tube. (Min: 4 mL) Mix well. 2nd aliquot (pH 2): Transfer 4 mL urine into a Sulfamic Acid Tube. (Min: 4 mL) Mix well. 3rd aliquot (pH 9): Transfer 4 mL urine into a Sodium Carbonate Tube. (Min: 4 mL) Mix well. 4th aliquot: Transfer 4 mL urine into an Unpreserved Tube. (Min: 4 mL) Freeze specimens immediately after aliquoting. Do not exceed 4 mL in tubes. If collection kit is unavailable, transport four 4 mL unadjusted aliquots of urine.																														
Rejection Criteria:	Any specimen other than 24 hour urine collection.																														
Stability:	Ambient: Unacceptable; Refrigerated: Unacceptable; Frozen: 2 Week(s); Incubated: Unacceptable																														
<b>Methodology:</b>	Quantitative Enzymatic; Quantitative Spectrophotometry ; Quantitative Ion-Selective Electrode																														
<b>Performed:</b>	Wednesday, Friday																														
<b>Reported:</b>	2-9 Day(s)																														
<b>CPT Codes:</b>	<table border="0"> <tr><td>82340</td><td>82436</td></tr> <tr><td>82507</td><td>83735</td></tr> <tr><td>83945</td><td>83986</td></tr> <tr><td>84105</td><td>84133</td></tr> <tr><td>84300</td><td>84392</td></tr> <tr><td>84560</td><td></td></tr> </table>	82340	82436	82507	83735	83945	83986	84105	84133	84300	84392	84560																			
82340	82436																														
82507	83735																														
83945	83986																														
84105	84133																														
84300	84392																														
84560																															
<b>Interpretive Data:</b>	Please see report for interpretive data.																														
<b>Components:</b>	<table border="0"> <tr><td>93518 - HOURS COLLECTED</td><td>93388 - URINE VOLUME</td></tr> <tr><td>90280 - SULFATE, URINE</td><td>90281 - SULFATE, URINE</td></tr> <tr><td>90282 - pH, URINE</td><td>90283 - CAOX</td></tr> <tr><td>90284 - CAHPO4</td><td>90285 - UA CALC</td></tr> <tr><td>90286 - INTERPRETATION</td><td>93006 - CALCIUM, URINE</td></tr> <tr><td>93007 - CALCIUM, URINE</td><td>93018 - OXALATE, URINE</td></tr> <tr><td>93016 - OXALATE, URINE</td><td>90287 - SODIUM, URINE</td></tr> <tr><td>90288 - SODIUM, URINE</td><td>93012 - URIC ACID, URINE</td></tr> <tr><td>93013 - URIC ACID, URINE</td><td>93015 - CITRATE, UR</td></tr> <tr><td>93014 - CITRATE, UR</td><td>93010 - MAGNESIUM, UR</td></tr> <tr><td>93011 - MAGNESIUM, UR</td><td>90289 - PHOSPHORUS, URINE</td></tr> <tr><td>90290 - PHOSPHORUS, URINE</td><td>90291 - POTASSIUM, URINE</td></tr> <tr><td>90292 - POTASSIUM, URINE</td><td>90293 - CHLORIDE, URINE</td></tr> <tr><td>90294 - CHLORIDE, URINE</td><td><b><u>93008 - CREAT, UR</u></b></td></tr> <tr><td>93009 - CREATININE</td><td>90296 - SUPERSATURATION</td></tr> </table>	93518 - HOURS COLLECTED	93388 - URINE VOLUME	90280 - SULFATE, URINE	90281 - SULFATE, URINE	90282 - pH, URINE	90283 - CAOX	90284 - CAHPO4	90285 - UA CALC	90286 - INTERPRETATION	93006 - CALCIUM, URINE	93007 - CALCIUM, URINE	93018 - OXALATE, URINE	93016 - OXALATE, URINE	90287 - SODIUM, URINE	90288 - SODIUM, URINE	93012 - URIC ACID, URINE	93013 - URIC ACID, URINE	93015 - CITRATE, UR	93014 - CITRATE, UR	93010 - MAGNESIUM, UR	93011 - MAGNESIUM, UR	90289 - PHOSPHORUS, URINE	90290 - PHOSPHORUS, URINE	90291 - POTASSIUM, URINE	90292 - POTASSIUM, URINE	90293 - CHLORIDE, URINE	90294 - CHLORIDE, URINE	<b><u>93008 - CREAT, UR</u></b>	93009 - CREATININE	90296 - SUPERSATURATION
93518 - HOURS COLLECTED	93388 - URINE VOLUME																														
90280 - SULFATE, URINE	90281 - SULFATE, URINE																														
90282 - pH, URINE	90283 - CAOX																														
90284 - CAHPO4	90285 - UA CALC																														
90286 - INTERPRETATION	93006 - CALCIUM, URINE																														
93007 - CALCIUM, URINE	93018 - OXALATE, URINE																														
93016 - OXALATE, URINE	90287 - SODIUM, URINE																														
90288 - SODIUM, URINE	93012 - URIC ACID, URINE																														
93013 - URIC ACID, URINE	93015 - CITRATE, UR																														
93014 - CITRATE, UR	93010 - MAGNESIUM, UR																														
93011 - MAGNESIUM, UR	90289 - PHOSPHORUS, URINE																														
90290 - PHOSPHORUS, URINE	90291 - POTASSIUM, URINE																														
90292 - POTASSIUM, URINE	90293 - CHLORIDE, URINE																														
90294 - CHLORIDE, URINE	<b><u>93008 - CREAT, UR</u></b>																														
93009 - CREATININE	90296 - SUPERSATURATION																														

**Please remove component 90295 CREAT, UR and replace with 93008 CREAT, UR.**

**91572 Malaria Abs, IgG**
**DT**

**91573 Polio Antibodies**
**DT**
**90297 Poliovirus (Types 1, 3) Antibodies**
**NT**

<b>Specimen:</b>	
Collect:	<b>One SST</b>  Also Acceptable One Red Top
Submit:	<b>1 mL (Min:0.2 mL) Serum. Submit Refrigerated. Submit in a Standard Transport Tube.</b>
Special Handling:	Separate serum from cells ASAP or within 2 hours of collection
Rejection Criteria:	Bacterially Contaminated Samples Grossly Lipemic Samples Hemolyzed specimens Plasma
Stability:	Ambient: 2 Day(s); Refrigerated: 2 Week(s); Frozen: 12 Month(s); Incubated: Unacceptable
<b>Methodology:</b>	Semi-Quantitative Serum Neutralization Assay
<b>Performed:</b>	Mon-Fri
<b>Reported:</b>	7-10 Day(s)
<b>Interpretive Data:</b>	Please see report for interpretive data.
<b>Components:</b>	91575 - POLIO AB, Type 1 <span style="float: right;">91577 - POLIO AB, Type 3</span>

**91456 Rabies Antibody, IgG**
**DT**

**91212 T-Cell Immunodeficiency Profile [Flow Cytometry]**
**CC**

<b>Specimen:</b>	
Collect:	<b>One Lavender (EDTA)</b>  Also Acceptable One Green Top (Li Heparin) One Green Top (Na Heparin) One Pink Top (EDTA)
Submit:	<b>4 mL (Min:0.5 mL) Whole blood. Submit Ambient.</b>
Special Handling:	Critical Ambient Remarks: Specimens must be analyzed within stability times provided. Some medication may affect immunophenotyping results and should be provided on the patient test request form.
Rejection Criteria:	Clotted Specimen Hemolyzed specimens EDTA samples greater than 30 hours and heparin samples greater than 48 hours old.
Stability:	Ambient: 3 Day(s); Refrigerated: Unacceptable; Frozen: Unacceptable; Incubated: Unacceptable
<b>Methodology:</b>	Quantitative Flow Cytometry
<b>Performed:</b>	Sun-Sat
<b>Reported:</b>	2-4 Day(s)
<b>CPT Codes:</b>	86355 86357 86359 86360
<b>Interpretive Data:</b>	Please see report for interpretive data.
<b>Components:</b>	93328 - %CD3 93327 - ABS CD3 92016 - %CD4 93330 - ABS CD4 92017 - %CD8 93334 - ABS CD8 92018 - CD4:CD8 RATIO 90230 - %CD19 93314 - ABS CD19 93315 - %NK CELLS 93316 - ABS NK-CELLS 93311 - INTERPRETATION

***Please remove component 90227 %CD4 and replace with 92016 %CD4.***

***Please remove component 90228 %CD8 and replace with 92017 %CD4.***

***Please remove component 90229 CD4:CD8 RATIO and replace with 92018 CD4:CD8 RATIO.***

**90203 Testosterone LC/MS, Females or Children**
**NT**

<b>Specimen:</b>	
Collect:	<b>One SST</b>  Also Acceptable One Green Top (Li Heparin) One Green Top (Na Heparin) One Red Top
Submit:	<b>1 mL (Min:0.2 mL) Serum. Submit Refrigerated. Submit in a Standard Transport Tube.</b>  Also Acceptable 1 mL (Min:0.2 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
<b>Methodology:</b>	Quantitative High Performance Liquid Chromatography-Tandem Mass Spectrometry
<b>Performed:</b>	Sun-Sat
<b>Reported:</b>	2-5 Day(s)
<b>CPT Codes:</b>	84403

**2755 Thyroglobulin IgG**
**SRC/RRC**

<b>Specimen:</b>	
Collect:	<b>One SST</b>  Also Acceptable <del>One Blue Top (Na Citrate)</del> One Green Top (Li Heparin) One Green Top (Na Heparin) One Lavender (EDTA) One Pink Top (EDTA) One Red Top
Submit:	<b>1 mL (Min:0.5 mL) Serum. Submit Refrigerated. Submit in a Standard Transport Tube.</b>  Also Acceptable 1 mL (Min:0.5 mL) Plasma. Submit Refrigerated. Submit in a Standard Transport Tube.
Special Handling:	Minimize air exposure Separate from cells ASAP
Rejection Criteria:	Particulate matter Heat inactivated Microbial Contaminated
Stability:	Ambient: 8 Hour(s); Refrigerated: 3 Day(s); Frozen: 1 Month(s); Incubated: Unacceptable
<b>Methodology:</b>	Chemiluminescence Microparticle Immunoassay (CMIA)
<b>Performed:</b>	Mon-Fri
<b>Reported:</b>	1-3 Day(s)
<b>CPT Codes:</b>	86800
<b>Interpretive Data:</b>	General Reference Range : <4.11 IU/mL

***Please remove Blue (Na Citrate) as an alternate submit specimen type.***

***Please take note to special handling, rejection criteria, stability, and methodology.***

***Please note previous reference range of <280 IU/mL***

***Effective Date: March 8, 2017***



**1416 Thyroid Autoantibody Group**
**SSR/RRC**

<b>Specimen:</b>	
Collect:	<b>One SST</b>  Also Acceptable <del>One Blue Top (Na Citrate)</del> One Green Top (Li Heparin) One Green Top (Na Heparin) One Lavender (EDTA) One Pink Top (EDTA) One Red Top
Submit:	<b>1 mL (Min:0.5 mL) Serum. Submit Refrigerated. Submit in a Standard Transport Tube.</b>  Also Acceptable 1 mL (Min:0.5 mL) Plasma. Submit Refrigerated. Submit in a Standard Transport Tube.
Special Handling:	Minimize air exposure Separate from cells ASAP
Rejection Criteria:	Particulate matter Heat inactivated Microbial Contaminated
Stability:	Ambient: 8 Hour(s); Refrigerated: 3 Day(s); Frozen: 1 Month(s); Incubated: Unacceptable
<b>Methodology:</b>	Chemiluminescence Microparticle Immunoassay (CMIA)
<b>Performed:</b>	Mon-Fri
<b>Reported:</b>	1-3 Day(s)
<b>CPT Codes:</b>	86376 <span style="float: right;">86800</span>
<b>Interpretive Data:</b>	Please see report for interpretive data.
<b>Components:</b>	2754 - T. PEROXIDASE IgG <span style="float: right;">2755 - THYROGLOBULIN IgG</span>

***Please remove Blue (Na Citrate) as an alternate submit specimen type.***

***Please take note to special handling, rejection criteria, stability, and methodology.***

***Effective Date: March 8, 2017***

**2754 Thyroid Peroxidase IgG**
**SRC/RRC**

<b>Specimen:</b>	
Collect:	<b>One SST</b>  Also Acceptable <del>One Blue Top (Na Citrate)</del> One Green Top (Li Heparin) One Green Top (Na Heparin) One Lavender (EDTA) One Pink Top (EDTA) One Red Top
Submit:	<b>1 mL (Min:0.5 mL) Serum. Submit Refrigerated. Submit in a Standard Transport Tube.</b>  Also Acceptable 1 mL (Min:0.5 mL) Plasma. Submit Refrigerated. Submit in a Standard Transport Tube.
Special Handling:	Minimize air exposure Separate from cells ASAP
Rejection Criteria:	Particulate matter Heat inactivated Microbial Contaminated
Stability:	Ambient: 8 Hour(s); Refrigerated: 3 Day(s); Frozen: 1 Month(s); Incubated: Unacceptable
<b>Methodology:</b>	Chemiluminescence Microparticle Immunoassay (CMIA)
<b>Performed:</b>	Mon-Fri
<b>Reported:</b>	1-3 Day(s)
<b>CPT Codes:</b>	86376
<b>Interpretive Data:</b>	General Reference Range : <5.61 IU/mL

***Please remove Blue (Na Citrate) as an alternate submit specimen type.***

***Please take note to special handling, rejection criteria, stability, and methodology.***

***Please note previous reference range of <60 IU/mL.***

***Effective Date: March 8, 2017***

**2628 Treponemal Antibody, IgG**
**DT**
**1003 Treponema pallidum (Syphilis) Screening Cascade**
**NC**

<b>Specimen:</b>	
Collect:	<b>One SST</b>  Also Acceptable One Red Top
Submit:	<b>1 mL (Min:0.5 mL) Serum. Submit Refrigerated. Submit in a Standard Transport Tube.</b>
Special Handling:	Separate from cells ASAP If Treponemal Antibody Total is Reactive then reflex testing will be performed and additional charges will apply.
Rejection Criteria:	Bacterially Contaminated Samples Grossly Hemolyzed Samples Grossly Lipemic Samples Lipemic Samples
Stability:	Ambient: Unacceptable; Refrigerated: 1 Week(s); Frozen: 1 Month(s); Incubated: Unacceptable
<b>Methodology:</b>	Chemiluminescent Immunoassay
<b>Performed:</b>	Mon-Fri
<b>Reported:</b>	1-3 Day(s)
<b>CPT Codes:</b>	86780
<b>Interpretive Data:</b>	General Reference Range : non-reactive  When the TREPONEMAL AB TOT test is reactive, it will reflex to RPR. If the RPR is non-reactive, it will then reflex to the TREPONEMAL AB IgG test for confirmation. When interpreting these results, consider the patient's history of prior infections and treatment and the patient's risk of re-infection. If diagnosis is still unclear, recommend re-testing in 2-4 weeks.

**Effective: February 21, 2017**

*Per Centers for Disease Control and Prevention (CDC) recommendations, the reverse algorithm screening cascade is ideal for detection of Syphilis (Treponema pallidum). This cascade includes a T. pallidum total antibody test that, when positive, reflexes to a rapid plasma reagin (RPR) test. A positive RPR result confirms the positive antibody test result, while a negative RPR reflexes to another T. pallidum antibody test (IgG). If positive, the patient should be considered for treatment, depending on his/her history of prior infections and treatment.*

