



# Analytes offered by the Alabama Department of Public Health – Bureau of Clinical Laboratories



Clickable A-Z index: **A B C D E F G H I L M N O P Q R S T U V W Y Z**

| Analyte   | Test Order Request ID   | Specimen/ Volume   | Collection Guidance or Method  | Storage and Shipment Temperature Requirements  | Method               | TAT (Working Days) | Offered To                | Division & Lab                   |
|---|---|--|--|--|----------------------|--------------------|---------------------------|----------------------------------|
| <b>Abrine</b>   | Call 334-290-6160   | Urine, 5 ml  | <a href="#">Urine collection guidance</a>  | <ul style="list-style-type: none"> <li>Storage: Freeze at <math>\leq -20^{\circ}\text{C}</math></li> <li>Shipment: On dry ice at <math>\leq -20^{\circ}\text{C}</math></li> </ul> <p><b>Biological Substance, Category B<br/>UN 3373</b></p>   | LC/MS/MS             | 1-2                | All providers             | Clinical Chemistry<br>Prattville |
| <b>Aerobic/Anaerobic Bacterial ID</b>   | Microbiology - Reference<br><br><u>LIMS</u><br>REFMICRO<br><br>Please specify suspected agent | <u>Pure Culture (Isolate)</u><br>Preferred<br><br><u>Clinical Specimens</u><br><ul style="list-style-type: none"> <li>Blood Culture Bottle;</li> <li>Bodily Fluids based on suspected agent</li> </ul> | <u>Pure Culture (Isolate)</u><br>After inoculating incubate 24 hours before shipment.<br><br><u>Clinical Specimens</u><br><ul style="list-style-type: none"> <li>Blood Culture Bottle - Refer to manufacturer's procedures</li> <li>Bodily Fluids - Sterile collection: method based on source.</li> </ul> | <u>Pure Culture (Isolate)</u><br><ul style="list-style-type: none"> <li>Shipment: Ambient</li> <li>Delayed Storage &amp; Shipment: Refrigerate at <math>2-8^{\circ}\text{C}</math></li> </ul> <u>Clinical Specimens</u><br><ul style="list-style-type: none"> <li>Shipment: Frozen cold packs at <math>2-8^{\circ}\text{C}</math></li> <li>Delayed Storage &amp; Shipment: Refrigerate at <math>2-8^{\circ}\text{C}</math></li> </ul> <p><b>Biological Substance, Category B<br/>UN 3373</b><br/>Unless suspected then<br/><b>Infectious Substance, Category A<br/>UN 2814</b></p> | Conventional methods | 7-30               | All providers             | Microbiology<br>Prattville       |
| <b>Alanine Amino-Transferase (ALT, SGPT)</b><br><br>See:<br>Comprehensive Metabolic Panel, Hepatic Function Panel | <u>RFLT</u><br>Chemistry<br>Analyte(s): ALT<br>SGPT<br><br><u>LIMS</u><br>CHM ALT             | Serum, 3 ml  | <a href="#">Venipuncture - Collect in SST or Red Top Serum Tube</a><br><br>See 'Blood Tube Guidance' table on last page of this document for centrifugation and aliquoting instructions.   | <ul style="list-style-type: none"> <li>Storage: Refrigerate at <math>2-8^{\circ}\text{C}</math></li> <li>Shipment: Frozen cold packs at <math>2-8^{\circ}\text{C}</math></li> </ul> <p><b>Biological Substance, Category B<br/>UN 3373</b></p>   | Chemistry Analyzer   | 1-3                | CHD & Publicly Funded HCP | Clinical Chemistry<br>Prattville |
| <b>Albumin</b><br><br>See:<br>Comprehensive Metabolic Panel, Hepatic Function Panel                               | <u>RFLT</u><br>Chemistry<br>Analyte(s): Albumin<br><br><u>LIMS</u><br>CHM ALBUMI              | Serum, 3 ml  | <a href="#">Venipuncture - Collect in SST or Red Top Serum Tube</a><br><br>See 'Blood Tube Guidance' table on last page of this document for centrifugation and aliquoting instructions.   | <ul style="list-style-type: none"> <li>Storage: Refrigerate at <math>2-8^{\circ}\text{C}</math></li> <li>Shipment: Frozen cold packs at <math>2-8^{\circ}\text{C}</math></li> </ul> <p><b>Biological Substance, Category B<br/>UN 3373</b></p>   | Chemistry Analyzer   | 1-3                | CHD & Publicly Funded HCP | Clinical Chemistry<br>Prattville |
| <b>Alkaline Phosphatase</b><br><br>See:<br>Comprehensive Metabolic Panel, Hepatic Function Panel                  | <u>RFLT</u><br>Chemistry<br>Analyte(s): ALK PH<br><br><u>LIMS</u><br>CHM ALK PH               | Serum, 3 ml  | <a href="#">Venipuncture - Collect in SST or Red Top Serum Tube</a><br><br>See 'Blood Tube Guidance' table on last page of this document for centrifugation and aliquoting instructions.   | <ul style="list-style-type: none"> <li>Storage: Refrigerate at <math>2-8^{\circ}\text{C}</math></li> <li>Shipment: Frozen cold packs at <math>2-8^{\circ}\text{C}</math></li> </ul> <p><b>Biological Substance, Category B<br/>UN 3373</b></p>   | Chemistry Analyzer   | 1-3                | CHD & Publicly Funded HCP | Clinical Chemistry<br>Prattville |

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| <b>Amylase</b>  | <u>RFLT</u><br>Chemistry Analyte(s): Amylase<br><br><u>LIMS</u><br>CHM AMYLAS   | Serum, 3 ml   | <a href="#">Venipuncture - Collect in SST or Red Top Serum Tube</a><br><br>See 'Blood Tube Guidance' table on last page of this document for centrifugation and aliquoting instructions.   | <ul style="list-style-type: none"> <li>Storage: Refrigerate at 2-8°C</li> <li>Shipment: Frozen cold packs at 2-8°C</li> </ul> <p><b>Biological Substance, Category B<br/>UN 3373</b></p>  | Chemistry Analyzer                          | 1-3                | CHD & Publicly Funded HCP   | Clinical Chemistry<br>Prattville |
| <b>Arbovirus</b><br>(Dengue, Chikungunya, Zika)   | <u>RFLT</u><br>Arboviral Testing<br><br><u>LIMS</u><br>ARBO_PCR   | <ul style="list-style-type: none"> <li>Serum, 2-3 ml;</li> <li>Urine, 2-3 ml (for Zika only, must be paired with serum);</li> <li>Amniotic fluid (for Zika only, must be paired with serum)</li> </ul>  | <ul style="list-style-type: none"> <li><a href="#">Serum: Venipuncture - Collect in SST or Red Top Serum Tube</a></li> </ul> <p>See 'Blood Tube Guidance' table on last page of this document for centrifugation and aliquoting instructions.</p> <ul style="list-style-type: none"> <li>Urine: Collect in sterile container. <a href="#">Urine collection guidance.</a></li> <li>Amniotic fluid: Follow facility protocol.</li> </ul>   | <ul style="list-style-type: none"> <li>Storage: Refrigerate at 2-8°C</li> <li>Shipment: Frozen cold packs at 2-8°C</li> <li>Specimens must be submitted within 7 days of collection</li> </ul> <p><b>Biological Substance, Category B<br/>UN 3373</b></p> | PCR<br><br>Forward to CDC with pre-approval | 2-5                | All providers: requires prior consultation with ID&O before submission (334) 206-5971 | Microbiology<br>Prattville       |
| <b>Ascaris</b>  | See Intestinal Parasites  |   |  |   |   |                    |   | Microbiology<br>Prattville       |
| <b>Aspartate Amino-transferase</b><br>(AST, SGOT)<br><br>See:<br>Comprehensive Metabolic Panel,<br>Hepatic Function Panel | <u>RFLT</u><br>Chemistry Analyte(s): AST, SGOT<br><br><u>LIMS</u><br>CHM AST  | Serum, 3 ml   | <a href="#">Venipuncture - Collect in SST or Red Top Serum Tube</a><br><br>See 'Blood Tube Guidance' table on last page of this document for centrifugation and aliquoting instructions.   | <ul style="list-style-type: none"> <li>Storage: Refrigerate at 2-8°C</li> <li>Shipment: Frozen cold packs at 2-8°C</li> </ul> <p><b>Biological Substance, Category B<br/>UN 3373</b></p>  | Chemistry Analyzer                          | 1-3                | CHD & Publicly Funded HCP   | Clinical Chemistry<br>Prattville |
| <b>Aspergillus,</b><br>(Culture)  | See Fungus Culture  |   |  |   |   |                    |   | Mycotics<br>Prattville           |
| <b>Bacillus anthracis</b>   | <u>RFLT</u><br>Other test:<br><i>Bacillus anthracis</i><br><br><u>LIMS</u><br>REFMICRO<br><br><b>Please specify suspected agent</b> | Call BCL Micro-Reference Bacteriology<br><br>334-290-6186<br><br><u>Pure Culture (Isolate)</u><br>Preferred<br><br><u>Clinical Specimens</u><br><ul style="list-style-type: none"> <li>Whole blood;</li> <li>Serum;</li> <li>Respiratory aspirate;</li> <li>Clinical swabs</li> </ul> | <u>Pure Culture (Isolate)</u><br>Submit on chocolate agar slant, tryptic soy agar, or other suitable slant.<br><br><u>Clinical Specimens</u><br><ul style="list-style-type: none"> <li>Whole blood: Venipuncture - Collect in EDTA tube: Immediately after collection, invert tube 8-10 times.</li> <li><a href="#">Serum: Venipuncture - Collect in SST or Red Top Serum Tube</a></li> </ul> <p>See 'Blood Tube Guidance' table on last page of this document for centrifugation and aliquoting instructions.</p> | <p><b>Send immediately but call prior to shipment</b></p> <p><u>Pure Culture (Isolate)</u><br/>Shipment: Ambient</p> <p><u>Clinical Specimens</u><br/>Shipment: Frozen cold packs at 2-8°C</p> <p><b>Infectious Substance, Category A<br/>UN 2814</b></p> | Conventional methods,<br>PCR                | 3-14               | All providers   | Microbiology<br>Prattville       |

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| <b>Basic Metabolic Panel</b><br>Glucose,<br>BUN,<br>Creatine,<br>Sodium,<br>Potassium,<br>Chloride,<br>Bicarbonate,<br>Calcium | <u>RFLT</u><br>Chemistry Panel:<br>Basic Metabolic Panel<br><br><u>LIMS</u><br>CHM BAS ME               | Serum, 3 ml   | <a href="#">Venipuncture - Collect in SST or Red Top Serum Tube</a><br><br>See 'Blood Tube Guidance' table on last page of this document for centrifugation and aliquoting instructions.  | <ul style="list-style-type: none"> <li>Storage: Refrigerate at 2-8°C</li> <li>Shipment: Frozen cold packs at 2-8°C</li> </ul> <p><b>Biological Substance, Category B<br/>UN 3373</b></p>  | Chemistry Analyzer | 1-3                | CHD & Publicly Funded HCP | Clinical Chemistry<br>Prattville |
| <b>Bicarbonate (CO2)</b>   | See Basic Metabolic Panel or Comprehensive Metabolic Panel or Electrolyte Panel or Renal Function Panel |   |   |   |                    |                    |                           | Clinical Chemistry               |
| <b>Bilirubin (Total)</b><br><br>See:<br>Comprehensive Metabolic Panel,<br>Hepatic Function Panel                               | <u>RFLT</u><br>Chemistry Analyte(s):<br>Bilirubin Total<br><br><u>LIMS</u><br>CHM BIL TO                | Serum, 3 ml   | <a href="#">Venipuncture - Collect in SST or Red Top Serum Tube</a><br><br>See 'Blood Tube Guidance' table on last page of this document for centrifugation and aliquoting instructions.<br><br><b>This is a light sensitive analyte. Protect from light during storage and delivery.</b>   | <ul style="list-style-type: none"> <li>Transport specimens intended for light-sensitive analyte testing in foil wrapping</li> <li>Storage: Refrigerate at 2-8°C</li> <li>Shipment: Frozen cold packs at 2-8°C</li> </ul> <p><b>Biological Substance, Category B<br/>UN 3373</b></p>   | Chemistry Analyzer | 1-3                | CHD & Publicly Funded HCP | Clinical Chemistry<br>Prattville |
| <b>Bilirubin (Direct)</b><br><br>See:<br>Hepatic Function Panel  | <u>RFLT</u><br>Chemistry Analyte(s):<br>Bilirubin Direct<br><br><u>LIMS</u><br>CHM BIL DI               |   |   |   |                    |                    |                           |                                  |
| <b>Bioterrorism Sample</b>   | FBI consultation required prior to submission   |   |   |   |                    |                    |                           | Microbiology<br>Prattville       |
| <b>Blastomyces (Culture)</b>   | See Fungus Culture  |   |   |   |                    |                    |                           | Mycotics<br>Prattville           |
| <b>Blood Parasites</b>   | <u>RFLT</u><br>Parasitology<br><br><u>LIMS</u><br>BLPARA  | <ul style="list-style-type: none"> <li>Whole blood;</li> <li>Blood smear - Include thick and thin smears, 2 slides each. <ul style="list-style-type: none"> <li>o 1 pair stained</li> <li>o 1 pair unstained</li> </ul> </li> </ul> | <ul style="list-style-type: none"> <li>Whole blood: Venipuncture - Collect in EDTA tube: Immediately after collection, invert tube 8-10 times.</li> <li>Blood Smear - <a href="#">Capillary blood draw</a></li> </ul> <p>Citrated, oxalated, or heparinized blood may not adhere to slides &amp; may interfere with staining.</p> | <p><u>Whole blood</u></p> <ul style="list-style-type: none"> <li>Shipment: Frozen cold packs at 2-8°C</li> <li>Delayed storage and shipment: Refrigerate at 2-8°C, ship on frozen cold packs at 2-8°C.</li> </ul> <p><u>Blood Smear</u></p> <ul style="list-style-type: none"> <li>Allow slides to air dry thoroughly before packaging</li> <li>Storage and Shipment: Ambient</li> </ul> <p><b>Biological Substance, Category B<br/>UN 3373</b></p> | Microscopy         | 3-5                | All providers             | Microbiology<br>Prattville       |

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| <b>Blood Urea Nitrogen (BUN)</b><br><br>See:<br>Basic Metabolic Panel,<br>Comprehensive Metabolic Panel,<br>Renal Function Panel | <u>RFLT</u><br>Chemistry Analyte(s):<br>BUN<br><br><u>LIMS</u><br>CHM BUN   | Serum, 3 ml  | <a href="#">Venipuncture - Collect in SST or Red Top Serum Tube</a><br><br>See 'Blood Tube Guidance' table on last page of this document for centrifugation and aliquoting instructions.   | <ul style="list-style-type: none"> <li>Storage: Refrigerate at 2-8°C</li> <li>Shipment: Frozen cold packs at 2-8°C</li> </ul> <p><b>Biological Substance, Category B UN 3373</b></p>   | Chemistry Analyzer                        | 1-3                | CHD & Publicly Funded HCP   | Clinical Chemistry<br>Prattville |
| <b><i>Bordetella pertussis</i></b><br>(Culture/PCR)  | <u>RFLT</u> <ul style="list-style-type: none"> <li>Microbiology - Reference</li> <li>Microbiology - PCR</li> </ul> <p><b>Please specify suspected agent</b></p> <u>LIMS</u> <ul style="list-style-type: none"> <li>BORCUL</li> <li>BPPCR</li> </ul> | <u>Pure Culture (Isolate)</u><br>Preferred<br><br><u>Clinical Specimens</u> <ul style="list-style-type: none"> <li>Nasopharyngeal (NP) aspirate/wash, 1 ml in sterile tube;</li> <li>NP aspirate/wash in Regan-Lowe media;</li> <li>NP swab, sterile tube;</li> <li>NP swab in Regan-Lowe media</li> </ul> | <u>Pure Culture (Isolate)</u> <ul style="list-style-type: none"> <li>Inoculate Jones-Kendrick (JK) agar plate &amp; streak for isolation. Incubate plate for 48 hrs. in moist environment at 35°C.</li> </ul> <u>Clinical Specimens</u> <ul style="list-style-type: none"> <li>NP aspirate/wash: Drip 2 drops of wash specimen over swab. Push swab into Regan-Lowe media.</li> <li>NP swab: Push swab into Regan-Lowe media.</li> </ul> | <u>Pure Culture (Isolate)</u> <ul style="list-style-type: none"> <li>Shipment: Ambient in moist environment</li> <li>Delayed Storage &amp; Shipment: Refrigerate at 2-8°C. Ship on frozen cold packs at 2-8°C.</li> </ul> <u>Clinical Specimens</u> <ul style="list-style-type: none"> <li>Shipment: Frozen cold packs at 2-8°C</li> <li>Delayed Storage &amp; Shipment: Refrigerate at 2-8°C. Ship on frozen cold packs at 2-8°C.</li> </ul> <p><b>Biological Substance, Category B UN 3373</b></p> | Conventional methods, PCR                 | 2-10               | All providers   | Microbiology<br>Prattville       |
| <b>Botulinum toxin</b>   | <u>RFLT</u><br>Other test:<br>Botulinum toxin<br><br><u>LIMS</u><br>REFMICRO<br><br><b>Please specify suspected agent</b>   | Call BCL Micro-Reference Bacteriology<br><br>334-290-6186<br><br><ul style="list-style-type: none"> <li>Food;</li> <li>Serum, 5 ml;</li> <li>Stool, 5 g</li> </ul>   | <ul style="list-style-type: none"> <li>Food - Leave food specimens in original container if possible.</li> <li><a href="#">Serum: Venipuncture - Collect in SST or Red Top Serum Tube</a></li> </ul> <p>See 'Blood Tube Guidance' table on last page of this document for centrifugation and aliquoting instructions.</p> <ul style="list-style-type: none"> <li><a href="#">Stool collection guidance</a></li> </ul>                    | <b>Send immediately but call prior to shipment</b> <ul style="list-style-type: none"> <li>Refrigerate at 2-8°C until shipment</li> <li>Ship food separately from clinical samples</li> </ul> <p><b>Biological Substance, Category B UN 3373</b></p>  | Conventional methods, PCR, Mouse bioassay | 1-14               | All providers:<br>Requires prior approval with Central Office-ID&O within 4 hours<br>(334) 206-5971 | Microbiology<br>Prattville       |

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| <b><i>Brucella</i></b>   | <u>RFLT</u><br>Other test:<br><i>Brucella</i><br><br><u>LIMS</u><br>REFMICRO<br><br><b>Please specify suspected agent</b>     | Call BCL Micro-Reference Bacteriology<br><br>334-290-6186<br><br><u>Pure Culture (Isolate)</u><br>Preferred<br><br><u>Clinical Specimens</u><br>• Whole blood;<br>• Serum | <u>Pure Culture (Isolate)</u><br>• Submit on chocolate agar slant, tryptic soy agar, or other suitable slant.<br><br><u>Clinical Specimens</u><br>• Whole blood: Venipuncture - Collect in EDTA tube: Immediately after collection, invert tube 8-10 times.<br>• <u>Serum: Venipuncture - Collect in SST or Red Top Serum Tube</u><br><br>See 'Blood Tube Guidance' table on last page of this document for centrifugation and aliquoting instructions. | <b>Send immediately but call prior to shipment</b><br><br><u>Pure Culture (Isolate)</u><br>Shipment: Ambient<br><br><u>Clinical Specimens</u><br>Shipment: Frozen cold packs at 2-8°C<br><br><b>Infectious Substance, Category A<br/>UN 2814</b> | Conventional methods, PCR | 3-14               | All providers             | Microbiology<br>Prattville       |
| <b><i>Burkholderia mallei and pseudomallei</i></b><br>(Glanders disease)             | <u>RFLT</u><br>Other test:<br><i>Burkholderia</i><br><br><u>LIMS</u><br>REFMICRO<br><br><b>Please specify suspected agent</b> | Call BCL Micro-Reference Bacteriology<br><br>334-290-6186<br><br><u>Pure Culture (Isolate)</u><br>Preferred<br><br><u>Clinical Specimens</u><br>• Whole blood;<br>• Serum | <u>Pure Culture (Isolate)</u><br>• Submit on appropriate media<br><br><u>Clinical Specimens</u><br>• Whole blood: Venipuncture - Collect in EDTA tube: Immediately after collection, invert tube 8-10 times.<br>• <u>Serum: Venipuncture - Collect in SST or Red Top Serum Tube</u><br><br>See 'Blood Tube Guidance' table on last page of this document for centrifugation and aliquoting instructions.  | <b>Send immediately but call prior to shipment</b><br><br><u>Pure Culture (Isolate)</u><br>Shipment: Ambient<br><br><u>Clinical Specimens</u><br>Shipment: Frozen cold packs at 2-8°C<br><br><b>Infectious Substance, Category A<br/>UN 2814</b> | Conventional methods, PCR | 3-14               | All providers             | Microbiology<br>Prattville       |
| <b>Calcium</b><br><br>See:<br>Basic Metabolic Panel<br>Comprehensive Metabolic Panel | <u>RFLT</u><br>Chemistry<br>Analyte(s):<br>Calcium<br><br><u>LIMS</u><br>CHM CALCIU   | Serum, 3 ml   | <u>Venipuncture - Collect in SST or Red Top Serum Tube</u><br><br>See 'Blood Tube Guidance' table on last page of this document for centrifugation and aliquoting instructions.   | • Storage: Refrigerate at 2-8°C<br>• Shipment: Frozen cold packs at 2-8°C<br><br><b>Biological Substance, Category B<br/>UN 3373</b>   | Chemistry Analyzer        | 1-3                | CHD & Publicly Funded HCP | Clinical Chemistry<br>Prattville |

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| <i>Campylobacter</i>   | <u>RFLT</u><br>Campylobacter<br><br><u>LIMS</u><br>CAMPY   | <u>Pure Culture (Isolate)</u><br>Preferred<br><br><u>Clinical Specimens</u><br>Whole stool (feces) and stool in preservatives  | <a href="#">Stool collection guidance</a>  | <u>Pure Culture (Isolate)</u><br>After isolating for pure culture & 24 hrs. incubation,<br><ul style="list-style-type: none"> <li>• Shipment: Ambient and microaerophilic if available</li> <li>• Delayed Storage &amp; Shipment: Refrigerate at 2-8°C. Ship on frozen cold packs at 2-8°C.</li> </ul> <u>Clinical Specimens</u><br><ul style="list-style-type: none"> <li>• Shipment: Frozen cold packs at 2-8°C</li> <li>• Delayed Storage &amp; Shipment: Refrigerate at 2-8°C</li> </ul> <b>Biological Substance, Category B<br/>UN 3373</b> | Conventional methods              | 5-10               | All providers                                 | Microbiology<br>Prattville          |
| <i>Candida</i><br>(Culture)  | See Fungus Culture   |  |  |  |                                   |                    |   | Mycotics<br>Prattville              |
| <i>Chikungunya</i>   | See Arbovirus  |  |  |  |                                   |                    |   | Microbiology<br>Prattville          |
| <b>CT/GC/TV</b><br><i>Chlamydia trachomatis</i> (CT),<br><i>Neisseria gonorrhoeae</i> (NG),<br><i>Trichomonas vaginalis</i> (TV) | <u>RFLT</u><br>CT/GC/TV<br><br><u>LIMS</u><br>CT-GC-TV   | <ul style="list-style-type: none"> <li>• Male urethral swab;</li> <li>• Endocervical swab;</li> <li>• Urine specimen;</li> <li>• Vaginal swab</li> </ul> <ul style="list-style-type: none"> <li>• Oral and rectal swabs are tested for CT/GC only.</li> </ul> <b>For patients 14 and under or pregnant patients only urine samples will be accepted.</b> | <ul style="list-style-type: none"> <li>• <a href="#">Endocervical &amp; Male urethral swab</a></li> <li>• <a href="#">Urine specimen - First void of urine for the day</a></li> <li>• <a href="#">Vaginal swab</a></li> <li>• <a href="#">Throat swab</a></li> <li>• <a href="#">Rectal swab</a></li> </ul> <ul style="list-style-type: none"> <li>• Unisex Swabs, Item# CF02 available upon request.</li> <li>• Urine Spec Kit, Item# CM01 available upon request.</li> <li>• Multitest Swab, Item# CF04 available upon request.</li> </ul> | <ul style="list-style-type: none"> <li>• Storage: 2-30°C</li> <li>• Shipment: Frozen cold packs at 2-30°C</li> </ul> <b>Biological Substance, Category B<br/>UN 3373</b>   | NAAT DNA Amplification test (PCR) | 1-7                | CHD & Publicly Funded HCP, Private physicians | STD<br>Prattville & Mobile          |
| <b>Chloride</b>  | See Basic Metabolic Panel - See Comprehensive Metabolic Panel - See Electrolyte Panel - See Renal Function Panel |  |  |  |                                   |                    |   | Clinical<br>Chemistry               |
| <b>Cholesterol</b><br><br>See:<br>Lipid Panel  | <u>RFLT</u><br>Chemistry Analyte(s): Cholesterol<br><br><u>LIMS</u><br>CHM CHOLE                                 | Serum, 3 ml  | <a href="#">Venipuncture - Collect in SST or Red Top Serum Tube</a><br><br>See 'Blood Tube Guidance' table on last page of this document for centrifugation and aliquoting instructions.   | <ul style="list-style-type: none"> <li>• Storage: Refrigerate at 2-8°C</li> <li>• Shipment: Frozen cold packs at 2-8°C</li> </ul> <b>Biological Substance, Category B<br/>UN 3373</b>  | Chemistry Analyzer                | 1-3                | CHD & Publicly Funded HCP                     | Clinical<br>Chemistry<br>Prattville |
| <i>Clostridium botulinum</i>   | See Botulinum toxin  |  |  |  |                                   |                    |   | Microbiology<br>Prattville          |

| Analyte  | Test Order Request ID   | Specimen/ Volume  | Collection Guidance or Method  | Storage and Shipment Temperature Requirements  | Method   | TAT (Working Days) | Offered To                | Division & Lab                   |
|--|---|---|--|--|--|--------------------|---------------------------|----------------------------------|
| <i>Coccidioides</i> ,<br>(Culture)               | <u>RFLT</u><br>Mycology<br><br><u>LIMS</u><br>REFMYC                | <u>Pure Culture (Isolate)</u><br>Preferred<br><br><u>Clinical Specimens</u><br>• Respiratory, 5-10 ml;<br>• Tissue, 1g;<br>• Body fluids, 10-15 ml;<br>• CSF, 2-3 ml<br><br>Minimum recommended volumes (Optimal 10 ml) | See “ <a href="#">Mycology Specimen Requirements</a> ” on ADPH website.<br><br>• Mycology Kit, Item# K306 available upon request.<br>• Mailers are provided to HCP   | <u>Pure Culture (Isolate)</u><br>• Storage and Shipment: Ambient<br><br><u>Clinical Specimens</u><br>• Storage and Shipment:<br>○ Blood, bone marrow, CSF, gastric fluid (Add 100 mg sodium carbonate to gastric within 1 hr.), ambient<br>• Other samples: Ambient up to 24 hours. Delayed: Refrigerate at 2-8°C<br><br><b>Biological Substance, Category B<br/>UN 3373</b>     | Microscopy, Culture, Morphology,<br><br>CDC Referral | 7 - 31             | All providers             | Mycotics<br>Prattville           |
| <b>Complete Blood Count with differential</b>    | <u>RFLT</u><br>CBC With Differential<br><br><u>LIMS</u><br>CBC_DIFF | Whole blood, 5 ml   | Whole blood: Venipuncture - Collect in EDTA tube: Immediately after collection, invert tube 8-10 times.<br><br>Specimens should be collected Monday-Thursday. If collected Friday, they must be received before noon Friday. | <b>Do NOT store - Ship immediately<br/>DO NOT REFRIGERATE</b><br><br>• Storage: 2-26°C<br>• Shipment: With frozen cold packs between 2-26°C<br>• Delayed shipment: 24-48 hours. Ship with frozen cold packs at 2-8°C<br><br><b>Differential can only be performed on samples ≤ 24 hours since time of collection.</b><br><br><b>Biological Substance, Category B<br/>UN 3373</b> | Hematology Analyzer                                  | 1-3                | CHD & Publicly Funded HCP | Clinical Chemistry<br>Prattville |
| <b>Complete Blood Count without differential</b> | <u>RFLT</u><br>CBC Without Differential<br><br><u>LIMS</u><br>CBC   | Whole blood, 5 ml   | Whole blood: Venipuncture - Collect in EDTA tube: Immediately after collection, invert tube 8-10 times.<br><br>Specimens should be collected Monday-Thursday. If collected Friday, they must be received before noon Friday. | <b>Do NOT store - Ship immediately<br/>DO NOT REFRIGERATE</b><br><br>• Storage: 2-26°C<br>• Shipment: With frozen cold packs between 2-26°C<br>• Delayed shipment: 24-48 hours. Ship with frozen cold packs at 2-8°C<br><br><b>Biological Substance, Category B<br/>UN 3373</b>  | Hematology Analyzer                                  | 1-3                | CHD & Publicly Funded HCP | Clinical Chemistry<br>Prattville |

| Analyte  | Test Order Request ID   | Specimen/ Volume  | Collection Guidance or Method  | Storage and Shipment Temperature Requirements  | Method               | TAT (Working Days) | Offered To  | Division & Lab   |
|--|---|---|--|--|----------------------|--------------------|---|--|
| <b>Comprehensive Metabolic</b><br>ALT(SGPT), Albumin, Alkaline Phosphatase, AST(SGOT), Bicarbonate, Bilirubin Total, BUN, Calcium, Chloride, Creatine, Glucose, Potassium, Protein Total, Sodium | <u>RFLT</u><br>Chemistry Panel: Comprehensive Metabolic<br><br><u>LIMS</u><br>CHM CMP ME                                | Serum, 3 ml   | <a href="#">Venipuncture - Collect in SST or Red Top Serum Tube</a><br><br>See 'Blood Tube Guidance' table on last page of this document for centrifugation and aliquoting instructions.<br><br><b>This is a light sensitive analyte. Protect from light during storage and delivery.</b>  | <ul style="list-style-type: none"> <li>Transport specimens intended for light-sensitive analyte testing in foil wrapping</li> <li>Storage: Refrigerate at 2-8°C</li> <li>Shipment: Frozen cold packs at 2-8°C</li> </ul> <p><b>Biological Substance, Category B<br/>UN 3373</b></p>  | Chemistry Analyzer   | 1-3                | CHD & Publicly Funded HCP   | Clinical Chemistry<br>Prattville   |
| <b>Coronavirus (MERS-CoV)</b>  | <u>RFLT</u><br>Microbiology - PCR: MERS-CoV<br><br><u>LIMS</u><br>REFMICRO<br><br><b>Please specify suspected agent</b> | <ul style="list-style-type: none"> <li>Nasopharyngeal swab;</li> <li>Sputum;</li> <li>Lower respiratory aspirate;</li> <li>Serum</li> </ul>   | <ul style="list-style-type: none"> <li>Swabs should be placed in viral transport media.</li> <li>Sputum &amp; aspirates collected in a sterile tube.</li> <li><a href="#">Serum: Venipuncture - Collect in SST or Red Top Serum Tube</a></li> </ul> <p>See 'Blood Tube Guidance' table on last page of this document for centrifugation and aliquoting instructions.</p> | <p><u>Samples &lt;72hrs:</u></p> <ul style="list-style-type: none"> <li>Storage: Refrigerate at 2-8°C</li> <li>Shipment: Frozen cold packs at 2-8°C</li> </ul> <p><u>Samples &gt;72hrs:</u></p> <ul style="list-style-type: none"> <li>Storage: Freeze at -20°C</li> <li>Shipment: On dry ice at ≤ -20°C</li> </ul> <p><b>Biological Substance, Category B<br/>UN 3373</b></p> | PCR                  | 2-5                | All providers: requires prior consultation with ID&O before submission (334) 206-5971 | Microbiology<br>Prattville   |
| <b>Coronavirus (SARS-CoV2, COVID-19)</b>   | <u>RFLT</u><br>COVID19<br><br><u>LIMS</u><br>COVID-19<br><br><b>Please specify suspected agent</b>                      | <ul style="list-style-type: none"> <li>Nasal Swab;</li> <li>Nasopharyngeal swab;</li> <li>Nasal wash-aspirate</li> </ul> <p><b>Specimens placed in viral transport medium containing guanidium thiocyanate will be deemed unsatisfactory.</b></p> | <ul style="list-style-type: none"> <li>Nasal Swab</li> <li>Nasopharyngeal swab</li> <li>Nasal wash &amp; aspirates collected in a sterile tube.</li> </ul> <p>Swabs should be placed in viral transport media.</p>   | <p><a href="#">Packaging Guidance</a></p> <ul style="list-style-type: none"> <li>Storage: Refrigerate at 2-8°C</li> <li>Shipment: Frozen cold packs at 2-8°C</li> <li>Specimens should be submitted within 3 days of collection.</li> </ul> <p><b>Biological Substance, Category B<br/>UN 3373</b></p>   | PCR                  | 5 -7               | All Providers   | Microbiology,<br>Mycobacteriology,<br>STD,<br>Clinical Chemistry<br>Prattville |
| <b>Corynebacterium diphtheriae (Culture)</b>   | <u>RFLT</u><br>Microbiology - Reference<br><br><u>LIMS</u><br>REFMICRO<br><br><b>Please specify suspected agent</b>     | Pure Culture (Isolate)  | Submit on sheep's blood agar or other suitable slant.  | Shipment: Ambient<br><br><b>Biological Substance, Category B<br/>UN 3373</b>   | Conventional methods | 3-12               | All providers   | Microbiology<br>Prattville   |



| Analyte   | Test Order Request ID   | Specimen/ Volume   | Collection Guidance or Method   | Storage and Shipment Temperature Requirements   | Method                                  | TAT (Working Days) | Offered To  | Division & Lab                      |
|---|---|--|---|---|---|--------------------|---|-------------------------------------|
| <i>Coxiella burnetii</i><br>(Q-Fever)   | <u>RFLT</u><br>Microbiology - PCR<br><br><u>LIMS</u><br>REFMICRO<br><br><b>Please specify suspected agent</b> | Whole blood  | Whole blood: Venipuncture - Collect in EDTA tube: Immediately after collection, invert tube 8-10 times.   | <ul style="list-style-type: none"> <li>Shipment: Frozen cold packs at 2-8°C</li> <li>Delayed shipment: Refrigerate at 2-8°C</li> </ul> <b>Biological Substance, Category B UN 3373</b>                    | PCR                                     | 2-5                | All providers: Prior consultation with Central Office - ID&O before submission (334) 206-5971 | Microbiology<br>Prattville          |
| <b>Crab meat</b><br>(Fecal Coliform, <i>E. coli</i> , Aerobic Plate Count and <i>Listeria</i> )                   | Test request/ report form from Mobile lab   | 150 g sample in puncture proof containers  | Meat from various crab shop stations including cooked crab, lump meat, jumbo lump, claw meat, and claws   | <ul style="list-style-type: none"> <li>Iced &amp; held below 10°C, but not frozen; not submerged in cooler water</li> <li>Must be received by laboratory within 24 hrs. of collection</li> </ul>          | FDA-APHA MPN Method                     | 1-7                | ADPH Bureau of Environmental Services   | Mobile                              |
| <b>Creatinine</b><br><br>See:<br>Basic Metabolic Panel,<br>Comprehensive Metabolic Panel.<br>Renal Function Panel | <u>RFLT</u><br>Chemistry Analyte(s): Creatinine<br><br><u>LIMS</u><br>CHM CREATI                              | Serum, 3 ml  | <u>Venipuncture - Collect in SST or Red Top Serum Tube</u><br><br>See 'Blood Tube Guidance' table on last page of this document for centrifugation and aliquoting instructions. | <ul style="list-style-type: none"> <li>Storage: Refrigerate at 2-8°C</li> <li>Shipment: Frozen cold packs at 2-8°C</li> </ul> <b>Biological Substance, Category B UN 3373</b>                             | Chemistry Analyzer                      | 1-3                | CHD & Publicly Funded HCP   | Clinical Chemistry<br>Prattville    |
| <b>Cryptococcus</b><br>(Culture)  | See Fungus Culture  |  |   |   |   |                    |   | Mycotics<br>Prattville              |
| <b>Cryptosporidium</b>  | <u>RFLT</u><br>Parasitology<br><br><u>LIMS</u><br>OANDP<br><br><b>Please specify suspected agent</b>          | <ul style="list-style-type: none"> <li>Stool (feces), 1 tsp in Zn PVA, and 1 tsp 10% formalin</li> </ul><br><u>For surveillance only:</u> <ul style="list-style-type: none"> <li>Stool (feces), 1 tsp in Cary Blair media</li> </ul> | <u>Stool collection guidance</u><br><br>Intestinal Parasite Kit, Item# K303 available upon request.   | Shipment: Ambient<br><br><b>Biological Substance, Category B UN 3373</b>  | Microscopy, PCR (for surveillance only) | 1-5                | All providers   | Microbiology<br>Prattville          |
| <b>Cyanide</b>  | Call 334-290-6160   | Whole blood, 1 ml  | Whole blood: Venipuncture - Collect in EDTA tube: Immediately after collection, invert tube 8-10 times.   | <ul style="list-style-type: none"> <li>Storage: Refrigerate at 2-8°C</li> <li>Shipment: Frozen cold packs at 2-8°C</li> </ul> <b>Do not freeze</b><br><br><b>Biological Substance, Category B UN 3373</b> | GC/MS                                   | 1-3                | All providers   | Clinical Chemistry<br>Prattville    |
| <b>Dairy Products</b>   | Call BCL - Sanitary Bacteriology  |  |   |   |   |                    | State & CHD Environmental lists   | Sanitary Bacteriology<br>Prattville |
| <b>Dengue</b>   | See Arbovirus (Dengue, Chikungunya, Zika)   |  |   |   |   |                    |   | Microbiology<br>Prattville          |
| <b>Dermatophytes</b><br>(Culture)   | See Fungus Culture  |  |   |   |   |                    |   | Mycotics<br>Prattville              |
| <b>Diphtheria</b>   | See <i>Corynebacterium diphtheriae</i>  |  |   |   |   |                    |   | Microbiology<br>Prattville          |

| Analyte  | Test Order Request ID  | Specimen/ Volume   | Collection Guidance or Method  | Storage and Shipment Temperature Requirements   | Method               | TAT (Working Days) | Offered To   | Division & Lab                   |
|--|--|--|--|---|----------------------|--------------------|--|----------------------------------|
| <b>Ebola virus</b>   | <u>RFLT</u><br>Microbiology - PCR<br><br><u>LIMS</u><br>REFMICRO<br><br><b>Please specify suspected agent</b>  | Whole blood, 2-4 ml  | Call BCL Micro- Reference Bacteriology<br><br>334-290-6186   | <b>Call prior to shipment</b><br>• Shipment: Frozen cold packs at 2-8°C<br>• Delayed shipment: Refrigerate at 2- 8°C. Ship on frozen cold packs at 2-8°C<br><br><b>Infectious Substance, Category A<br/>UN 2814</b>   | PCR                  | 1-2                | All providers:<br>Prior consultation with Central Office - ID&O before submission (334) 206-5971 | Microbiology<br>Prattville       |
| <b>Electrolytes Panel</b><br>Na,<br>K,<br>Cl,<br>CO2   | <u>RFLT</u><br>Chemistry Panel Electrolytes<br><br><u>LIMS</u><br>CHM ELEC P   | Serum, 3 ml  | <a href="#">Venipuncture - Collect in SST or Red Top Serum Tube</a><br><br>See 'Blood Tube Guidance' table on last page of this document for centrifugation and aliquoting instructions. | • Storage: Refrigerate at 2-8°C<br>• Shipment: Frozen cold packs at 2-8°C<br><br><b>Biological Substance, Category B<br/>UN 3373</b>  | Chemistry Analyzer   | 1-3                | CHD & Publicly Funded HCP  | Clinical Chemistry<br>Prattville |
| <b>Entamoeba sp.</b>   | See Intestinal Parasites   |  |  |   |                      |                    |  | Microbiology<br>Prattville       |
| <b>Enteric fecal screen</b><br>( <i>Salmonella</i> , <i>Shigella</i> , shigatoxin producing <i>E. coli</i> ) | <u>RFLT</u><br>Enteric Fecal Screen<br><br><u>LIMS</u><br>ENT_FEC_SN   | <ul style="list-style-type: none"> <li>• Stool (feces) in Cary Blair media (preferred);</li> <li>• Stool (feces), 1 tsp;</li> <li>• Rectal swab</li> </ul> | <a href="#">Stool collection guidance</a>  | <ul style="list-style-type: none"> <li>• Shipment: Frozen cold packs at 2-8°C</li> <li>• Delayed shipment: Refrigerate at 2-8°C, ship on frozen cold packs at 2-8°C</li> <li>• Cary Blair media: Ship ambient</li> </ul><br><b>Biological Substance, Category B<br/>UN 3373</b>   | Conventional methods | 5-12               | All providers  | Microbiology<br>Prattville       |
| <b>Escherichia coli</b><br>(Serotyping, toxin testing)   | <u>RFLT</u><br><i>E. coli</i><br><br><u>LIMS</u><br><ul style="list-style-type: none"> <li>• E_COLI (Isolate only)</li> <li>• SHIGATOX (GN broth)</li> </ul> | <ul style="list-style-type: none"> <li>• Pure Culture (Isolate);</li> <li>• Gram-negative (GN) broth</li> </ul>  |  | <ul style="list-style-type: none"> <li>• Pure Culture (Isolate) - After isolating a pure culture &amp; 24 hr. incubation, ship immediately, ambient</li> <li>• Broth shipment - After inoculation, lid should be wrapped with parafilm, ship on frozen cold packs at 2-8°C</li> </ul><br><b><u>Shigatoxin Positive Strains:</u></b><br><b>Infectious Substance, Category A<br/>UN 2814</b><br><br><b><u>Unknown Toxin Status Samples:</u></b><br><b>Biological Substance, Category B<br/>UN3373</b> | Conventional methods | 7-14               | All providers  | Microbiology<br>Prattville       |

| Analyte                                     | Test Order Request ID   | Specimen/ Volume  | Collection Guidance or Method  | Storage and Shipment Temperature Requirements   | Method  | TAT (Working Days) | Offered To                | Division & Lab                |
|---|---|---|--|---|---|--------------------|---------------------------|-------------------------------|
| <b>Ferritin</b>                             | <u>RFLT</u><br>Chemistry Analyte(s): Ferritin<br><br><u>LIMS</u><br>CHM FERRIN  | Serum, 3 ml   | <a href="#">Venipuncture - Collect in SST or Red Top Serum Tube</a><br><br>See 'Blood Tube Guidance' table on last page of this document for centrifugation and aliquoting instructions.   | <ul style="list-style-type: none"> <li>Storage: Refrigerate at 2-8°C</li> <li>Shipment: Frozen cold packs at 2-8°C</li> </ul> <p><b>Biological Substance, Category B UN 3373</b></p>  | Chemistry Analyzer  | 1-3                | CHD & Publicly Funded HCP | Clinical Chemistry Prattville |
| <b>Francisella tularensis</b> (Tularemia)   | <u>RFLT</u><br>Other test: <i>Francisella</i><br><br><u>LIMS</u><br>REFMICRO<br><br><b>Please specify suspected agent</b> | Call BCL Micro-Reference Bacteriology<br><br>334-290-6186<br><br><u>Pure Culture (Isolate)</u> Preferred<br><br><u>Clinical Specimens</u><br><ul style="list-style-type: none"> <li>Whole blood;</li> <li>Aspirates;</li> <li>Swab of ulcer</li> </ul>                        | <u>Pure Culture (Isolate)</u><br>Submit on chocolate agar slant, tryptic soy agar, or other suitable slant.<br><br><u>Clinical Specimens</u><br><ul style="list-style-type: none"> <li>Whole blood: Venipuncture - Collect in EDTA tube: Immediately after collection, invert tube 8-10 times.</li> <li>Aspirates: Follow facility protocol based on aspirate site.</li> </ul> | <p><b>Send immediately but call prior to shipment.</b></p> <p><u>Pure Culture (Isolate)</u></p> <ul style="list-style-type: none"> <li>Shipment: Ambient</li> </ul> <p><u>Clinical Specimens</u></p> <ul style="list-style-type: none"> <li>Shipment: Frozen cold packs at 2-8°C</li> </ul> <p><b>Infectious Substance, Category A UN 2814</b></p>  | Conventional methods, PCR   | 3-14               | All providers             | Microbiology Prattville       |
| <b>Fungus, Culture</b> (Yeasts & Molds)     | <u>RFLT</u><br>Mycology<br><br><u>LIMS</u><br><ul style="list-style-type: none"> <li>RMYC</li> <li>REFMYC</li> </ul>      | <u>Pure Culture (Isolate)</u> Preferred<br><br><u>Clinical Specimens</u><br><ul style="list-style-type: none"> <li>Respiratory, 5-10 ml;</li> <li>Tissue, 1g;</li> <li>Body fluids, 10-15 ml;</li> <li>CSF, 2-3 ml,</li> </ul><br>Minimum recommended volumes (Optimal 10 ml) | See " <a href="#">Mycology Specimen Requirements</a> " on ADPH website.<br><br><ul style="list-style-type: none"> <li>Mycology Kit, Item# K306 available upon request.</li> <li>Mailers are provided to HCP</li> </ul>   | <p><u>Pure Culture (Isolate)</u></p> <ul style="list-style-type: none"> <li>Storage and Shipment: Ambient</li> </ul> <p><u>Clinical Specimens</u></p> <ul style="list-style-type: none"> <li>Storage and Shipment: <ul style="list-style-type: none"> <li>Blood, bone marrow, CSF, gastric fluid (Add 100 mg sodium carbonate to gastric within 1 hr.), Ambient</li> <li>Other samples: Ambient up to 24 hours. Delayed: Refrigerate at 2-8°C</li> </ul> </li> </ul> <p><b>Biological Substance, Category B UN 3373</b></p> | Microscopy morphology, Biochemicals Maldi-Tof, heat tolerance tests<br><br>CDC referral if unable to identify AND specimen collection was sterile | 1 -31              | All providers             | Mycotics Prattville           |
| <b>Gamma Glutamyl Transpeptidase</b> (GGTP) | <u>RFLT</u><br>Chemistry Analyte(s): GGTP<br><br><u>LIMS</u><br>CHM GGTP  | Serum, 3 ml   | <a href="#">Venipuncture - Collect in SST or Red Top Serum Tube</a><br><br>See 'Blood Tube Guidance' table on last page of this document for centrifugation and aliquoting instructions.   | <ul style="list-style-type: none"> <li>Storage: Refrigerate at 2-8°C</li> <li>Shipment: Frozen cold packs at 2-8°C</li> </ul> <p><b>Biological Substance, Category B UN 3373</b></p>  | Chemistry Analyzer  | 1-3                | CHD & Publicly Funded HCP | Clinical Chemistry Prattville |

| Analyte   | Test Order Request ID   | Specimen/ Volume   | Collection Guidance or Method   | Storage and Shipment Temperature Requirements  | Method                       | TAT (Working Days) | Offered To                | Division & Lab                   |
|---|---|--|---|--|------------------------------|--------------------|---------------------------|----------------------------------|
| <b>Gastrointestinal Panel</b><br><a href="#">See BioFire Gastro Panel Menu</a>                                | <u>RFLT</u><br>Other test: Gastro panel<br><br><u>LIMS</u><br>GASTRO_PNL<br><br><b>Indicate approved outbreak number on requisition</b> | Stool (feces), 1 tsp preferred in Cary Blair media   | <a href="#">Stool collection guidance</a>   | <ul style="list-style-type: none"> <li>Stool: Frozen cold packs at 2-8°C</li> <li>Cary Blair: Ambient</li> <li>Delayed shipment: Refrigerate at 2-8°C</li> </ul> <p><b>Biological Substance, Category B<br/>UN 3373</b></p>  | PCR                          | 2-5                | Central Office, CHDs      | Microbiology<br>Prattville       |
| <b>Giardia</b>  | See Intestinal Parasites  |  |   |  |                              |                    |                           | Microbiology<br>Prattville       |
| <b>Glucose</b><br><br>See:<br>Basic Metabolic Panel<br>Comprehensive Metabolic Panel,<br>Renal Function Panel | <u>RFLT</u><br>Chemistry Analyte(s):<br>Glucose<br><br><u>LIMS</u><br>CHM GLUCOS  | Serum, 3 ml  | <a href="#">Venipuncture - Collect in SST or Red Top Serum Tube</a><br><br>See 'Blood Tube Guidance' table on last page of this document for centrifugation and aliquoting instructions.  | <ul style="list-style-type: none"> <li>Storage: Refrigerate at 2-8°C</li> <li>Shipment: Frozen cold packs at 2-8°C</li> </ul> <p><b>Biological Substance, Category B<br/>UN 3373</b></p>   | Chemistry Analyzer           | 1-3                | CHD & Publicly Funded HCP | Clinical Chemistry<br>Prattville |
| <b>Haemophilus,</b><br>(Culture & Serotyping)   | <u>RFLT</u><br>Microbiology - Reference,<br>Microbiology - PCR<br><br><u>LIMS</u><br>HFLU   | <u>Pure Culture (Isolate)</u><br>Preferred<br><br><u>Clinical Specimens</u> <ul style="list-style-type: none"> <li>Whole blood;</li> <li>CSF;</li> <li>Bronchoalveolar lavage;</li> <li>Conjunctival swab</li> </ul> | <u>Pure Culture (Isolate)</u><br>After inoculation on chocolate agar incubate 24 hours before shipment.<br><br><u>Clinical Specimens</u> <ul style="list-style-type: none"> <li>Whole blood: Venipuncture - Collect in EDTA tube: Immediately after collection, invert tube 8-10 times.</li> <li>CSF - Follow facility protocol</li> <li>Bronchoalveolar lavage - Follow facility protocol.</li> <li>Conjunctival swab - Follow facility protocol.</li> </ul> | <u>Pure Culture (Isolate)</u> <ul style="list-style-type: none"> <li>Shipment: Ambient</li> <li><b>Ship immediately</b></li> </ul> <u>Clinical Specimens</u> <ul style="list-style-type: none"> <li>Delayed shipment: Refrigerate at 2-8°C</li> <li>Shipment: Frozen cold packs at 2-8°C</li> </ul> <p><b>Biological Substance, Category B<br/>UN 3373</b></p> | Conventional methods,<br>PCR | 4-8                | All providers             | Microbiology<br>Prattville       |
| <b>Hematocrit,</b><br>(Automated)   | See Complete Blood Count  |  |   |  |                              |                    |                           | Clinical Chemistry<br>Prattville |
| <b>Hemoglobin,</b><br>(Automated)   | See Complete Blood Count  |  |   |  |                              |                    |                           | Clinical Chemistry<br>Prattville |

| Analyte   | Test Order Request ID  | Specimen/ Volume   | Collection Guidance or Method  | Storage and Shipment Temperature Requirements  | Method                            | TAT (Working Days) | Offered To                | Division & Lab                   |
|---|--|--|--|--|-----------------------------------|--------------------|---------------------------|----------------------------------|
| <b>Hepatic Function Panel</b><br>AST(SGOT),<br>ALT(SGPT),<br>Alkaline Phosphatase,<br>Total Bilirubin,<br>Direct bilirubin,<br>Total Protein,<br>Albumin,<br>Phosphorus | <u>RFLT</u><br>Chemistry Panel:<br>Hepatic Function Panel<br><br><u>LIMS</u><br>CHM HEP PN | Serum, 3 ml  | <a href="#">Venipuncture - Collect in SST or Red Top Serum Tube</a><br><br>See 'Blood Tube Guidance' table on last page of this document for centrifugation and aliquoting instructions.<br><br><b>This is a light sensitive analyte. Protect from light during storage and delivery.</b>                        | <ul style="list-style-type: none"> <li>Transport specimens intended for light-sensitive analyte testing in foil wrapping</li> <li>Storage: Refrigerate at 2-8°C</li> <li>Shipment: Frozen cold packs at 2-8°C</li> </ul> <b>Biological Substance, Category B<br/>UN 3373</b>   | Chemistry Analyzer                | 1-3                | CHD & Publicly Funded HCP | Clinical Chemistry<br>Prattville |
| <b>Hepatitis A (IgM)</b>  | <u>RFLT</u><br>Hepatitis A-IgM<br><br><u>LIMS</u><br>HEP-A-ABDY                            | Serum, 3 ml  | <a href="#">Venipuncture - Collect in SST or Red Top Serum Tube</a><br><br>See 'Blood Tube Guidance' table on last page of this document for centrifugation and aliquoting instructions.   | <ul style="list-style-type: none"> <li>Storage: Refrigerate at 2-8°C</li> <li>Shipment: Frozen cold packs at 2-8°C</li> </ul> <b>Biological Substance, Category B<br/>UN 3373</b>  | Chemistry Analyzer                | 1-5                | CHD & Publicly Funded HCP | Clinical Chemistry<br>Prattville |
| <b>Hepatitis B (Surface Antigen – detects current infection)</b>  | <u>RFLT</u><br>Hepatitis B- Surface Antigen<br><br><u>LIMS</u><br>HEP-B-AGEN               | Serum, 3 ml  | <a href="#">Venipuncture - Collect in SST or Red Top Serum Tube</a><br><br>See 'Blood Tube Guidance' table on last page of this document for centrifugation and aliquoting instructions.   | <ul style="list-style-type: none"> <li>Storage: Refrigerate at 2-8°C</li> <li>Shipment: Frozen cold packs at 2-8°C</li> </ul> <b>Biological Substance, Category B<br/>UN 3373</b>  | Chemistry Analyzer                | 1-5                | CHD & Publicly Funded HCP | Clinical Chemistry<br>Prattville |
| <b>Hepatitis B (Surface Antibody – detects immunity and past infection)</b>   | <u>RFLT</u><br>Hepatitis B- Surface Antibody<br><br><u>LIMS</u><br>HEP-B-ABDY              | Serum, 3 ml  | <a href="#">Venipuncture - Collect in SST or Red Top Serum Tube</a><br><br>See 'Blood Tube Guidance' table on last page of this document for centrifugation and aliquoting instructions.   | <ul style="list-style-type: none"> <li>Storage: Refrigerate at 2-8°C</li> <li>Shipment: Frozen cold packs at 2-8°C</li> </ul> <b>Biological Substance, Category B<br/>UN 3373</b>  | Chemistry Analyzer                | 1-5                | CHD & Publicly Funded HCP | Clinical Chemistry<br>Prattville |
| <b>Hepatitis C (Screening)</b>  | <u>RFLT</u><br>Hepatitis C- Antibody<br><br><u>LIMS</u><br>HEP-C-ABDY                      | Serum, 3 ml  | <a href="#">Venipuncture - Collect in SST or Red Top Serum Tube</a><br><br>See 'Blood Tube Guidance' table on last page of this document for centrifugation and aliquoting instructions.   | <ul style="list-style-type: none"> <li>Storage: Refrigerate at 2-8°C</li> <li>Shipment: Frozen cold packs at 2-8°C</li> </ul> <b>Biological Substance, Category B<br/>UN 3373</b>  | Chemistry Analyzer                | 1-5                | CHD & Publicly Funded HCP | Clinical Chemistry<br>Prattville |
| <b>Hepatitis C (Viral Load)</b>   | <u>RFLT</u><br>Hepatitis C-Viral Load<br><br><u>LIMS</u><br>HEP_C_VL                       | <ul style="list-style-type: none"> <li>Plasma, 3 ml;</li> <li>Serum, 3 ml</li> </ul> | <ul style="list-style-type: none"> <li><a href="#">Plasma: Venipuncture - Collect in EDTA tube.</a></li> <li><a href="#">Serum: Venipuncture - Collect in SST or Red Top Serum Tube</a></li> </ul> See 'Blood Tube Guidance' table on last page of this document for centrifugation and aliquoting instructions. | <ul style="list-style-type: none"> <li>Storage: Upon separation, EDTA plasma or serum may be stored in secondary tubes for up to 6 days at 2-8°C or up to 12 weeks at ≤ -18°C.</li> <li>Shipment: ≤ 6 days ship on frozen cold packs at 2-8°C. 7 days to 84 days ship on dry ice ≤ -18°C.</li> </ul> <b>Biological Substance, Category B<br/>UN 3373</b> | NAAT DNA Amplification test (PCR) | 1-5                | CHD & Publicly Funded HCP | Clinical Chemistry<br>Prattville |

| Analyte  | Test Order Request ID  | Specimen/ Volume | Collection Guidance or Method   | Storage and Shipment Temperature Requirements   | Method                            | TAT (Working Days) | Offered To                                    | Division & Lab                   |
|--|--|------------------|---|---|-----------------------------------|--------------------|---|----------------------------------|
| <b>High-Density Lipoprotein Cholesterol (HDL)</b><br><br>See:<br>Lipid Panel | <u>RFLT</u><br>Chemistry<br>Analyte(S) HDL<br><br><u>LIMS</u><br>CHM CHL HD  | Serum, 3 ml      | <a href="#">Venipuncture - Collect in SST or Red Top Serum Tube</a><br><br>See 'Blood Tube Guidance' table on last page of this document for centrifugation and aliquoting instructions.<br><br><b>Patient should be fasting.</b> | <ul style="list-style-type: none"> <li>Storage: Refrigerate at 2-8°C</li> <li>Shipment: Frozen cold packs at 2-8°C</li> </ul><br><b>Biological Substance, Category B<br/>UN 3373</b>  | Chemistry Analyzer                | 1-3                | CHD & Publicly Funded HCP                     | Clinical Chemistry<br>Prattville |
| <b>Histoplasmosis (Culture)</b>  | See Fungus Culture   |                  |   |   |                                   |                    |   | Mycotics<br>Prattville           |
| <b>HIV (Ag/AB Screening)</b>   | <u>RFLT</u><br>HIV Screening<br><br><u>LIMS</u><br>HIV-SCRN  | Serum, 3-5 ml    | <a href="#">Venipuncture - Collect in SST or Red Top Serum Tube</a><br><br>See 'Blood Tube Guidance' table on last page of this document for centrifugation and aliquoting instructions.  | <ul style="list-style-type: none"> <li>Storage: Refrigerate at 2-8°C</li> <li>Shipment: Frozen cold packs at 2-8°C</li> </ul><br>Specimens must be received in lab within 7 days of collection.<br><br><b>Biological Substance, Category B<br/>UN 3373</b>  | BioPlex Multiplex Immunoassay     | 1 -5               | CHD Federally funded HCP, Private physicians  | STD<br>Prattville                |
| <b>HIV 1 (Confirmation NAAT)</b>   | NAAT testing is only performed on specimens with a reactive screening or non-reactive or indeterminate Geenius result. | Serum, 2 ml      | <a href="#">Venipuncture - Collect in SST or Red Top Serum Tube</a><br><br>See 'Blood Tube Guidance' table on last page of this document for centrifugation and aliquoting instructions.  | <ul style="list-style-type: none"> <li>Storage: Refrigerate at 2-8°C</li> <li>Shipment: Frozen cold packs at 2-8°C</li> </ul><br><b>Biological Substance, Category B<br/>UN 3373</b>  | NAAT DNA Amplification test (PCR) | 5-10               | CHD & publicly funded HCP                     | STD<br>Prattville                |
| <b>HIV 1/2 (Differentiation Geenius)</b>                                     | Geenius is only performed on specimens with a reactive screening result.   | Serum, 3-5 ml    | <a href="#">Venipuncture - Collect in SST or Red Top Serum Tube</a><br><br>See 'Blood Tube Guidance' table on last page of this document for centrifugation and aliquoting instructions.  | <u>Samples &lt; 48 hrs. old:</u> <ul style="list-style-type: none"> <li>Storage: 20-30°C</li> <li>Shipment: Room temperature cold packs at 20-30°C</li> </ul><br><u>Samples 3-7 days old:</u> <ul style="list-style-type: none"> <li>Refrigerate at 2-8°C</li> <li>Shipment: Frozen cold packs at 2-8°C</li> </ul><br><b>Biological Substance, Category B<br/>UN 3373</b> | Geenius                           | 1-5                | CHD, Federally funded HCP, Private physicians | STD<br>Prattville                |

| Analyte                     | Test Order Request ID   | Specimen/ Volume  | Collection Guidance or Method   | Storage and Shipment Temperature Requirements  | Method                            | TAT (Working Days) | Offered To   | Division & Lab   |
|-----------------------------|---|---|---|--|-----------------------------------|--------------------|--|--|
| HIV (Viral Load)            | RFLT<br>HIV Viral Load<br><br>LIMS<br>HIV VL                                    | Plasma, 3-5 ml  | <a href="#">Venipuncture - Collect in EDTA tube.</a><br><br>See 'Blood Tube Guidance' table on last page of this document for centrifugation and aliquoting instructions.   | <ul style="list-style-type: none"> <li>Storage: Upon separation, EDTA plasma may be stored in a transfer tube for up to 6 days at 2-8°C or up to 12 weeks at ≤ -18°C.</li> <li>Shipment: ≤ 6 days ship on frozen cold packs at 2-8°C. 7 days to 84 days ship on dry ice ≤ -18°C.</li> </ul> <p><b>Biological Substance, Category B<br/>UN 3373</b></p> | NAAT DNA Amplification test (PCR) | 5-10               | HIV/Viral Load Grant approved participants & CHD   | Clinical Chemistry<br>Prattville                                       |
| Hookworm                    | See Intestinal Parasites  |   |   |  |                                   |                    |  | Microbiology<br>Prattville   |
| Influenza                   | RFLT<br>Influenza<br><br>LIMS<br>INFLUENZA                                      | <ul style="list-style-type: none"> <li>Upper respiratory specimens;</li> <li>Lower respiratory specimens</li> </ul> <p>Calcium alginate swabs are not accepted.</p> | <p>See <a href="#">Influenza Laboratory Testing, additional resources</a>, on the ADPH website for detailed instructions.</p> <ul style="list-style-type: none"> <li>Respiratory Kit, Item# K305 available upon request.</li> </ul> | <ul style="list-style-type: none"> <li>Storage: Refrigerate at 2-8°C</li> <li>Shipment: Frozen cold packs at 2-8°C</li> </ul> <p><b>Biological Substance, Category B<br/>UN 3373</b></p>   | PCR                               | 5-7                | All providers<br><br>If Avian Influenza suspected, contact Central Office - ID&O or State Health Lab for instructions (334) 206-5971 | Microbiology,<br>Mycobacteriology,<br>Clinical Chemistry<br>Prattville |
| Intestinal Parasites        | RFLT<br>Parasitology<br><br>LIMS<br>OANDP<br><br>Please specify suspected agent | <ul style="list-style-type: none"> <li>Stool (feces), 1 tsp in Zn PVA, and 1 tsp 10% formalin;</li> <li>Adult worm</li> </ul>                                       | <ul style="list-style-type: none"> <li><a href="#">Stool collection guidance</a></li> <li>Place adult worm in bottle containing formalin.</li> <li>Intestinal Parasite Kit, Item# K303 available upon request.</li> </ul>           | <ul style="list-style-type: none"> <li>Storage and Shipment: Ambient</li> </ul> <p><b>Biological Substance, Category B<br/>UN 3373</b></p>   | Microscopy                        | 3-7                | All providers  | Microbiology<br>Prattville   |
| Iron                        | RFLT<br>Chemistry<br>Analyte(s): Iron<br><br>LIMS<br>CHM IRON                   | Serum, 3 ml   | <a href="#">Venipuncture - Collect in SST or Red Top Serum Tube</a><br><br>See 'Blood Tube Guidance' table on last page of this document for centrifugation and aliquoting instructions.<br><br><b>Patient should be fasting.</b>   | <ul style="list-style-type: none"> <li>Shipment: Frozen cold packs at 2-8°C</li> <li>Delayed shipment: Refrigerate at 2-8°C</li> </ul> <p><b>Biological Substance, Category B<br/>UN 3373</b></p>  | Chemistry Analyzer                | 1-3                | CHD & Publicly Funded HCP  | Chemistry<br>Prattville  |
| Lactate Dehydrogenase (LDH) | RFLT<br>Chemistry<br>Analyte(s): LDH<br><br>LIMS<br>CHN LDH                     | Serum, 3 ml   | <a href="#">Venipuncture - Collect in SST or Red Top Serum Tube</a><br><br>See 'Blood Tube Guidance' table on last page of this document for centrifugation and aliquoting instructions.  | <ul style="list-style-type: none"> <li>Shipment: Frozen cold packs at 2-8°C</li> <li>Delayed shipment: Refrigerate at 2-8°C</li> </ul> <p><b>Biological Substance, Category B<br/>UN 3373</b></p>  | Chemistry Analyzer                | 1-3                | CHD & Publicly Funded HCP  | Clinical Chemistry<br>Prattville                                       |

| Analyte                    | Test Order Request ID   | Specimen/ Volume   | Collection Guidance or Method  | Storage and Shipment Temperature Requirements  | Method                         | TAT (Working Days) | Offered To   | Division & Lab                   |
|----------------------------|---|--|--|--|--------------------------------|--------------------|--|----------------------------------|
| <b>Lead, Blood</b>         | <u>RFLT</u><br>Blood Lead<br><br><u>LIMS</u><br>BLOOD_LEAD  | Whole blood, 200 µl  | <ul style="list-style-type: none"> <li>Whole blood: Venipuncture - Collect in EDTA tube: Immediately after collection, invert tube 8-10 times.</li> <li>Capillary draw into Microvette tube <ul style="list-style-type: none"> <li><a href="#">Fingerstick for children &gt;1 yr.</a></li> <li><a href="#">Heel stick for infants &lt;1 yr.</a></li> </ul> </li> </ul> <p><b>Ensure sample is filled to indicator line and properly capped. Immediately after collection invert tube 8-10 times.</b></p> | <ul style="list-style-type: none"> <li>Shipment: 2-30°C</li> <li>Delayed shipment: Refrigerate at 2-8°C</li> </ul> <p><b>Biological Substance, Category B<br/>UN 3373</b></p>  | Atomic Absorption              | 5                  | All providers  | Clinical Chemistry<br>Prattville |
| <b>Lead, Environmental</b> | Environmental Lead Sample Log sent by email   | <ul style="list-style-type: none"> <li>Paint sample, &gt; 0.2g</li> <li>Soil sample, &gt; 0.5 g</li> <li>Water sample, &gt;10 ml</li> <li>Wipe sample, ghost wipes</li> </ul>  | <ul style="list-style-type: none"> <li>50 ml polypropylene centrifuge tube</li> <li>Resealable plastic bag</li> <li>All collection and testing procedures conform to the methodology and guidelines set forth in the Environmental Lead Quality Assurance Manual (ADPH-F-BCL-175).</li> </ul>  | <ul style="list-style-type: none"> <li>Storage &amp; Shipment: Ambient</li> </ul>  | Atomic Absorption Spectrometry | 14                 | Environmental lists with the ADPH Bureau of Environmental Services | Clinical Chemistry<br>Prattville |
| <b>Legionella</b>          | <u>RFLT</u><br>Microbiology - Reference<br><br><b>Please specify suspected agent</b><br><br><u>LIMS</u><br>LEGION   | <u>Pure Culture (Isolate)</u><br>Preferred<br><br><u>Clinical Specimens</u> <ul style="list-style-type: none"> <li>Pleural fluid;</li> <li>Trans-tracheal aspirates;</li> <li>Bronchial washings;</li> <li>Sputum;</li> <li>Lung tissue</li> </ul> | <u>Pure Culture (Isolate)</u><br>Submit on buffered charcoal yeast extract with cystine agar<br><br><u>Clinical Specimens</u> <ul style="list-style-type: none"> <li>Trans-tracheal aspirates</li> <li>Bronchial washings</li> <li>Sputum</li> </ul> <p>Certain types of specimens may be accepted only for examination at the CDC (i.e., paraffin embedded tissue). No formalized specimens are accepted.</p>   | <u>Pure Culture (Isolate)</u> <ul style="list-style-type: none"> <li>Shipment: Ambient</li> <li>Delayed shipment: Ambient</li> </ul> <u>Clinical Specimens</u> <ul style="list-style-type: none"> <li>Shipment: Frozen cold packs at 2-8°C</li> <li>Delayed shipment: Refrigerate at 2-8°C</li> </ul> <p><b>Biological Substance, Category B<br/>UN 3373</b></p> | Conventional methods           | 10-16              | All providers  | Microbiology<br>Prattville       |
| <b>Leptospira</b>          | <u>RFLT</u><br>Microbiology - Reference<br><br><u>LIMS</u><br>REFMICRO<br><br><b>Please specify suspected agent</b> | Call BCL Micro-Reference Bacteriology<br>334-290-6186<br><br>Provider must send sample to BCL. BCL will forward to CDC for testing.  |  |  |                                |                    |  | Microbiology<br>Prattville       |



| Analyte  | Test Order Request ID  | Specimen/ Volume  | Collection Guidance or Method   | Storage and Shipment Temperature Requirements   | Method               | TAT (Working Days) | Offered To                | Division & Lab                   |
|--|--|---|---|---|----------------------|--------------------|---------------------------|----------------------------------|
| <b>Lipid Panel</b><br>Cholesterol,<br>HDL,<br>LDL,<br>Triglycerides                                | <u>RFLT</u><br>Chemistry Panel<br>Lipid<br><br><u>LIMS</u><br>HM LIP PN      | Serum, 3 ml   | <a href="#">Venipuncture - Collect in SST or Red Top Serum Tube</a><br><br>See 'Blood Tube Guidance' table on last page of this document for centrifugation and aliquoting instructions.  | <ul style="list-style-type: none"> <li>• Shipment: Frozen cold packs at 2-8°C</li> <li>• Delayed shipment: Refrigerate at 2-8°C</li> </ul> <p><b>Biological Substance, Category B<br/>UN 3373</b></p>   | Chemistry Analyzer   | 1-3                | CHD & Publicly Funded HCP | Clinical Chemistry<br>Prattville |
| <b>Listeria</b>  | <u>RFLT</u><br>Listeria<br><br><u>LIMS</u><br>REFMICRO                       | <u>Pure Culture (Isolate)</u><br>Preferred<br><br><u>Clinical Specimens</u> <ul style="list-style-type: none"> <li>• Whole blood;</li> <li>• CSF;</li> <li>• Stool (feces) - Process ASAP or refrigerate up to 48 hrs.</li> </ul> | <ul style="list-style-type: none"> <li>• Whole blood: Venipuncture - Collect in EDTA tube: Immediately after collection, invert tube 8-10 times.</li> <li>• CSF - Follow facility protocol</li> <li>• <a href="#">Stool collection guidance</a></li> </ul>                  | <u>Pure Culture (Isolate)</u> <ul style="list-style-type: none"> <li>• After isolating a pure culture &amp; 24 hr. incubation, ship immediately, ambient</li> </ul> <u>Clinical Specimens</u> <ul style="list-style-type: none"> <li>• Shipment: Frozen cold packs at 2-8°C</li> <li>• Delayed shipment: Refrigerate at 2-8°C</li> </ul> <p><b>Biological Substance, Category B<br/>UN 3373</b></p> | Conventional methods | 5-7                | All providers             | Microbiology<br>Prattville       |
| <b>Low-Density Lipoprotein Cholesterol (LDL)</b><br><br>See:<br>Lipid Panel                        | <u>RFLT</u><br>Chemistry<br>Analyte(s): LDL<br><br><u>LIMS</u><br>CHM CHL LD | Serum, 3 ml   | <a href="#">Venipuncture - Collect in SST or Red Top Serum Tube</a><br><br>See 'Blood Tube Guidance' table on last page of this document for centrifugation and aliquoting instructions.  | <ul style="list-style-type: none"> <li>• Shipment: Frozen cold packs at 2-8°C</li> <li>• Delayed shipment: Refrigerate at 2-8°C</li> </ul> <p><b>Biological Substance, Category B<br/>UN 3373</b></p>   | Chemistry Analyzer   | 1-3                | CHD & Publicly Funded HCP | Clinical Chemistry<br>Prattville |
| <b>Lymphocyte (Subset Enumeration)</b><br>CD4<br>CD8<br>CD4/CD8 Ratio                              | <u>RFLT</u><br>Lymphocyte<br>Subset (CD4)<br><br><u>LIMS</u><br>LYMPH        | Whole blood, 5 ml   | Whole blood: Venipuncture - Collect in EDTA tube: Immediately after collection, invert tube 8-10 times.<br><br>Specimens should be collected Monday-Thursday. If collected Friday, they must be received before noon Friday. Do not collect the day before a state holiday. | <p><b>Do NOT store - Ship immediately. Must arrive within 24 hrs. of collection. DO NOT REFRIGERATE</b></p> <ul style="list-style-type: none"> <li>• Storage: Room temperature at 18-26°C</li> <li>• Shipment: With room temperature cold packs at 18-26°C</li> </ul> <p><b>Biological Substance, Category B<br/>UN 3373</b></p>  | Flow Cytometry       | 1-3                | CHD & Publicly Funded HCP | Clinical Chemistry<br>Prattville |
| <b>Lymphocyte (Subset Enumeration &amp; Percent)</b><br>CD4<br>CD8<br>CD4/CD8 Ratio<br>Percent CD4 | <u>RFLT</u><br>Lymphocyte<br>Subset (CD4) %<br><br><u>LIMS</u><br>LYMPH_PCT  | Whole blood, 5 ml   | Whole blood: Venipuncture - Collect in EDTA tube: Immediately after collection, invert tube 8-10 times.<br><br>Specimens should be collected Monday-Thursday. If collected Friday, they must be received before noon Friday. Do not collect the day before a state holiday. | <p><b>Do NOT store - Ship immediately. Must arrive within 24 hrs. of collection. DO NOT REFRIGERATE</b></p> <ul style="list-style-type: none"> <li>• Storage: Room temperature at 18-26°C</li> <li>• Shipment: With room temperature cold packs at 18-26°C</li> </ul> <p><b>Biological Substance, Category B<br/>UN 3373</b></p>  | Flow Cytometry       | 1-3                | CHD & Publicly Funded HCP | Clinical Chemistry<br>Prattville |

| Analyte   | Test Order Request ID   | Specimen/ Volume  | Collection Guidance or Method  | Storage and Shipment Temperature Requirements  | Method   | TAT (Working Days) | Offered To  | Division & Lab                 |
|---|---|---|--|--|--|--------------------|---|--------------------------------|
| <b>Malaria</b>  | See <i>Plasmodium</i> sp.   |   |  |  |  |                    |   | Microbiology<br>Prattville     |
| <b>Measles</b><br>(German)  | See Rubella   |   |  |  |  |                    |   | Microbiology<br>Prattville     |
| <b>Milk</b>   | See Dairy Products  |   |  |  |  |                    |   | Sanitary<br>Bacteriology       |
| <b>Monkeypox</b>  | See <i>Orthopoxvirus</i>  |   |  |  |  |                    |   | Microbiology<br>Prattville     |
| <b>Morbillivirus</b><br>(Measles/Red Measles/ Rubeola)                              | <u>RFLT</u><br>Microbiology - Reference<br><br><u>LIMS</u><br>REFMICRO<br><br><b>List rash onset date</b> | <ul style="list-style-type: none"> <li>Nasopharyngeal swab;</li> <li>Throat swab</li> </ul>   | <ul style="list-style-type: none"> <li>Nasopharyngeal and Throat Swab.</li> <li>Specimens should be collected 8-21 days past onset of rash.</li> </ul>   | <ul style="list-style-type: none"> <li>Shipment: Frozen cold packs at 2-8°C</li> <li>Delayed shipment: Refrigerate at 2-8°C</li> </ul> <p align="center"><b>Biological Substance, Category B<br/>UN 3373</b></p>   | PCR<br><br>Forwarded to WSLH                           | 14 days            | CHD only. Contact the Central Office Immunization Division (334) 206-5978 | Microbiology<br>Prattville     |
| <b>Mycobacteria,</b><br>(Smear and Culture, Culture, & Drug Susceptibility Testing) | <u>RFLT</u><br>AFB<br><br><u>LIMS</u> <ul style="list-style-type: none"> <li>AFB</li> <li>AFBC</li> </ul> | <u>Pure Culture (Isolate)</u><br>Preferred<br><br><u>Clinical Specimens</u> <ul style="list-style-type: none"> <li>Respiratory, 5-10 ml;</li> <li>Tissue, 1g;</li> <li>Body fluids, 10-15 ml;</li> <li>CSF, 2-3 ml,</li> </ul> <p>Minimum recommended volumes (Optimum is 10 ml)</p> <p><b>Swabs are not recommended.</b></p> | See <a href="#">TB Specimen Requirements</a> on ADPH website for collection procedure. <ul style="list-style-type: none"> <li>AFB Kit, Item # K300 available upon request.</li> <li>Mailers are provided to HCP.</li> </ul> <p>Specimens should be collected Monday-Thursday. Specimens collected on Friday or older than 3 days upon receipt at the lab will not be accepted without prior approval. Call Mycobacteriology at 334-290-3089.</p> | <u>Pure Culture (Isolate):</u> <ul style="list-style-type: none"> <li>Storage: 35°-38°C</li> <li>Shipment: Ambient</li> </ul> <u>Clinical Specimens</u> <ul style="list-style-type: none"> <li>Storage and Shipment: <ul style="list-style-type: none"> <li>Blood, bone marrow, CSF, gastric fluid (Add 100 mg sodium carbonate to gastric within 1 hr.), ambient</li> <li>Other shipment: ≤ 24 hours, ambient. At &gt;24 hours ship with frozen cold packs at 2-8°C.</li> </ul> </li> </ul> <p><b>Clinical Specimens &amp; NTM cultures:</b><br/> <b>Biological Substance, Category B<br/>UN 3373</b></p> <p align="center"><u>TB cultures</u><br/> <b>Infectious Substance, Category A<br/>UN 2814</b></p> | Microscopy, Morphology, Accuprobe, PCR, Maldi-Tof, 16S | 1-45               | All providers   | Mycobacteriology<br>Prattville |

| Analyte   | Test Order Request ID  | Specimen/ Volume  | Collection Guidance or Method  | Storage and Shipment Temperature Requirements  | Method                    | TAT (Working Days) | Offered To  | Division & Lab                   |
|---|--|---|--|--|---------------------------|--------------------|---|----------------------------------|
| <i>Neisseria meningitidis</i><br>(Meningitis, Meningococcal)                                | <u>RFLT</u><br>Microbiology - Reference<br><br><b>Please specify suspected agent</b><br><br><u>LIMS</u><br>NMEN                  | <u>Pure Culture (Isolate)</u><br>Preferred<br><br><u>Clinical Specimens</u><br><ul style="list-style-type: none"> <li>• Whole blood;</li> <li>• CSF;</li> <li>• Bronchoalveolar lavage;</li> <li>• Nasopharyngeal swab;</li> <li>• Oropharyngeal swabs</li> </ul> | <u>Pure Culture (Isolate)</u><br>After inoculation on chocolate agar incubate 24 hours before shipment.<br><br><u>Clinical Specimens</u><br><ul style="list-style-type: none"> <li>• Whole blood: Venipuncture - Collect in EDTA tube: Immediately after collection, invert tube 8-10 times.</li> <li>• CSF - Follow facility protocol.</li> <li>• Bronchoalveolar lavage - Follow facility protocol.</li> </ul> | <u>Pure Culture (Isolate)</u><br><ul style="list-style-type: none"> <li>• Shipment: Ambient</li> <li>• Ship immediately</li> </ul><br><u>Clinical Specimens</u><br><ul style="list-style-type: none"> <li>• Shipment: Frozen cold packs at 2-8°C</li> <li>• Delayed shipment: Refrigerate at 2-8°C</li> </ul><br><b>Biological Substance, Category B</b><br><b>UN 3373</b> | PCR, Conventional Methods | 4-10               | All providers   | Microbiology<br>Prattville       |
| Newborn Screening   | <u>NBS Order Forms</u>   | <u>Refer to newborn screening collection guidelines</u>   |  |  |                           |                    |   | Newborn Screening<br>Prattville  |
| <i>Norovirus</i>  | <u>RFLT</u><br>Microbiology - PCR<br><br><u>LIMS</u><br>NOROVIRUS<br><br><b>Indicate approved outbreak number on requisition</b> | Stool (feces) whole, unpreserved. Minimum of 0.5 grams or 0.5 ml if liquid.   | <u>Stool collection guidance</u><br><br>Screw-cap container <b>WITHOUT media</b>   | <ul style="list-style-type: none"> <li>• Shipment: Frozen cold packs at 2-8°C</li> <li>• Delayed shipment: Refrigerate at 2-8°C</li> </ul><br><b>Biological Substance, Category B</b><br><b>UN 3373</b>  | PCR                       | 2-5                | Central Office, CHDs  | Microbiology<br>Prattville       |
| <b>Organo-phosphate Nerve agent metabolites</b><br>Sarin, Soman, Cyclosarin, VX, Russian VX | Call 334-290-6160  | <ul style="list-style-type: none"> <li>• Serum, 1 ml;</li> <li>• Urine, 1 ml</li> </ul>   | <ul style="list-style-type: none"> <li>• <u>Serum: Venipuncture - Collect in SST or Red Top Serum Tube</u></li> </ul><br>See 'Blood Tube Guidance' table on last page of this document for centrifugation and aliquoting instructions.<br><br><ul style="list-style-type: none"> <li>• <u>Urine collection guidance</u></li> </ul>   | Storage: Freeze at ≤ -20°C<br>Shipment: On dry ice at ≤ -20°C<br><br><b>Biological Substance, Category B</b><br><b>UN 3373</b>   | LC/MS/MS                  | 1-2                | All providers   | Clinical Chemistry<br>Prattville |
| <i>Orthopoxvirus</i>  | <u>RFLT</u><br>Microbiology - PCR<br><br><u>LIMS</u><br>REFMICRO<br><br><b>Please specify suspected agent</b>                    | <ul style="list-style-type: none"> <li>• Lesion swab, 2 per lesion</li> </ul>   | <u>CDC Collection Guidance</u>   | <ul style="list-style-type: none"> <li>• Storage: Refrigerated or frozen within 1hr of collection.</li> <li>• Shipment: Dry ice is strongly recommended, but frozen cold packs are acceptable.</li> <li>• Must be received within 7 days of collection.</li> </ul><br><b>Biological Substance, Category B</b><br><b>UN 3373</b>  | PCR                       | 1-5                | All Provider after approval from ADPH medical officer<br><br><u>Testing Consultation Form</u> | Microbiology<br>Prattville       |

| Analyte   | Test Order Request ID  | Specimen/ Volume  | Collection Guidance or Method  | Storage and Shipment Temperature Requirements  | Method                       | TAT (Working Days) | Offered To                                     | Division & Lab                      |
|---|--|---|--|--|------------------------------|--------------------|--|-------------------------------------|
| <b>Oyster Growing Waters</b><br>(Fecal Coliform)              | Test request/<br>report form from<br>Mobile lab  | • Water, 225 ml   | Collection guidance may be obtained from Mobile lab 251-344-6049.  | <ul style="list-style-type: none"> <li>Storage: Iced &amp; held below 10°C</li> <li>Sample must be tested within 30 hrs. of collection</li> </ul> <p><b>DO NOT FREEZE</b></p>  | Modified A-1 MPN             | 1-2                | ADPH<br>Bureau of<br>Environmental<br>Services | Mobile                              |
| <b>Oyster Growing Water: Wet Storage</b><br>(Total Coliforms) | Test request/<br>report form from<br>Mobile lab  | • Water, 225 ml   | <ul style="list-style-type: none"> <li>Collection guidance may be obtained from Mobile lab 251-344-6049.</li> <li>Ultra Violet (UV) treated process water from storage tanks.</li> </ul>   | <ul style="list-style-type: none"> <li>Storage: Iced &amp; held below 10°C</li> <li>Sample must be tested within 30 hrs. of collection</li> </ul>  | Ten tube single dilution MPN | 2-4                | ADPH<br>Bureau of<br>Environmental<br>Services | Mobile                              |
| <b>Pertussis, Culture</b><br>(Whooping Cough)                 | See Bordetella pertussis   |   |  |  |                              |                    |  | Microbiology<br>Prattville          |
| <b>Phosphorus</b><br><br>See:<br>Hepatic Function<br>Panel    | <u>RFLT</u><br>Chemistry<br>Analyte(s):<br>Phosphorus<br><br><u>LIMS</u><br>CHM PHOSPH | Serum, 3 ml   | <u><a href="#">Venipuncture - Collect in SST or Red Top Serum Tube</a></u><br><br>See 'Blood Tube Guidance' table on last page of this document for centrifugation and aliquoting instructions.  | <ul style="list-style-type: none"> <li>Shipment: Frozen cold packs at 2-8°C</li> <li>Delayed shipment: Refrigerate at 2-8°C. Ship on frozen cold packs at 2-8°C.</li> </ul> <p><b>Biological Substance, Category B<br/>UN 3373</b></p> | Chemistry Analyzer           | 1-3                | CHD &<br>Publicly<br>Funded HCP                | Clinical<br>Chemistry<br>Prattville |
| <b>Pinworm</b>  | <u>RFLT</u><br>Parasitology<br><br><u>LIMS</u><br>PINWORM                              | Pinworm kit (Swube™ paddle): Item #K307 available upon request. | Pinworm Kit - follow instruction sheet included with kit <ol style="list-style-type: none"> <li>Specimens should be collected immediately upon retiring at night or prior to rising in the morning.</li> <li>Hold the paddle by the cap and remove it from the tube.</li> <li>Separate the buttocks and press the tacky surface of the paddle against several areas of the anus region.</li> <li>Replace the paddle in the tube. Return specimen(s) to healthcare provider for mailing.</li> </ol> <p><b>Please do not put feces on paddle or in tube.</b></p> | <ul style="list-style-type: none"> <li>Shipment: Ambient</li> <li>Delayed shipment: Refrigerate at 2-8°C. Ship on frozen cold packs at 2-8°C.</li> </ul> <p><b>Biological Substance, Category B<br/>UN 3373</b></p>                    | Microscopy                   | 1-3                | All providers                                  | Microbiology<br>Prattville          |

| Analyte                            | Test Order Request ID  | Specimen/ Volume   | Collection Guidance or Method   | Storage and Shipment Temperature Requirements  | Method          | TAT (Working Days) | Offered To                       | Division & Lab                        |
|------------------------------------|--|--|---|--|-----------------|--------------------|----------------------------------|---------------------------------------|
| <i>Plasmodium sp.</i><br>(Malaria) | RFLT<br>Parasitology<br><br><b>Please specify suspected agent</b><br><br>LIMS<br>BLPARA                          | <u>Microscopy</u><br>• Whole blood;<br>• Blood smear - include thick and thin smears, 2 slides each.<br>○ 1 pair stained<br>○ 1 pair unstained<br><br><u>PCR</u><br>Whole blood  | Optimum collection time is halfway between chills.<br><br><u>Microscopy</u><br>• Whole blood: Venipuncture - Collect in EDTA tube: Immediately after collection, invert tube 8-10 times.<br>• Capillary draw<br>• Citrated, oxalated, or heparinized blood may not adhere to slides & may interfere with staining.<br><br><u>PCR</u><br>• Whole blood: Venipuncture - Collect in EDTA tube: Immediately after collection, invert tube 8-10 times. | <u>Blood Smear</u><br>• Allow slides to air dry thoroughly before packaging.<br>• Storage and Shipment: Ambient<br><br><u>Whole blood</u><br>• Shipment: Frozen cold packs at 2-8° C.<br>• Refrigerate at 2-8°C. Ship on frozen cold packs at 2-8°C.<br><br><b>Biological Substance, Category B<br/>UN 3373</b>                                    | Microscopy, PCR | 1-5                | All providers                    | Microbiology<br>Prattville            |
| <b>Potassium</b>                   | See Basic Metabolic Panel - See Comprehensive Metabolic Panel - See Electrolyte Panel - See Renal Function Panel |  |   |  |                 |                    |                                  | Clinical<br>Chemistry<br>Prattville   |
| <b>Protozoa</b>                    | See Intestinal Parasites   |  |   |  |                 |                    |                                  | Microbiology<br>Prattville            |
| <b>Q-Fever</b>                     | See <i>Coxiella burnetti</i>   |  |   |  |                 |                    |                                  | Microbiology<br>Prattville            |
| <b>Rabies</b>                      | RFLT<br><a href="#">Rabies requisition form</a><br><br>LIMS<br>RABIES  | <b>No live animals are accepted</b><br><br><u>Small animal</u><br>• Less than 15 lbs. and 19 inches long<br>• Dead, whole animal<br><br><u>Medium animal</u><br>• More than 15 lbs. and 19 inches long<br>• Decapitated with skull intact<br><br><u>Large animal</u><br>• Bovine, equine, etc.<br>• Send to a veterinary lab for brain removal | • Do not club or shoot animal in the head.<br>• Specimens that are decomposed or infested with fleas or maggots will not be accepted.<br>• Specimens in formalin not accepted.<br>• Animals needing other tests should be sent to a veterinary diagnostic lab first.  | • Shipment: Frozen cold packs or ice, double bagged and in a leakproof container, ambient.<br>• Delayed shipment: 36 - 48 hours Refrigerate and ship on frozen cold packs at 2-8°C. If shipment cannot occur within 4 days of collection freeze at ≤-20°C and ship on dry ice at ≤-20°C.<br><br><b>Label outside package<br/>“Rabies Specimen”</b> | DFA             | 1-2                | All providers & private citizens | Microbiology<br>Prattville,<br>Mobile |

| Analyte   | Test Order Request ID   | Specimen/ Volume  | Collection Guidance or Method   | Storage and Shipment Temperature Requirements   | Method                              | TAT (Working Days) | Offered To                | Division & Lab                   |
|---|---|---|---|---|-------------------------------------|--------------------|---------------------------|----------------------------------|
| <b>Renal Function Panel</b><br>Glucose,<br>Urea Nitrogen (BUN),<br>Creatine,<br>Sodium<br>Potassium<br>Chloride,<br>Bicarbonate | <u>RFLT</u><br>Chemistry Panel<br>Renal Function<br><br><u>LIMS</u><br>CHM REN PN   | Serum, 3 ml   | <a href="#">Venipuncture - Collect in SST or Red Top Serum Tube</a><br><br>See 'Blood Tube Guidance' table on last page of this document for centrifugation and aliquoting instructions.  | <ul style="list-style-type: none"> <li>Shipment: Frozen cold packs at 2-8°C</li> <li>Delayed shipment: Refrigerate at 2-8°C. Ship on frozen cold packs at 2-8°C</li> </ul> <p><b>Biological Substance, Category B<br/>UN 3373</b></p>   | Chemistry Analyzer                  | 1-3                | CHD & Publicly Funded HCP | Clinical Chemistry<br>Prattville |
| <b>Respiratory Panel</b><br><a href="#">See BioFire Respiratory Panel Menu</a>  | <u>RFLT</u><br>Microbiology - PCR<br><br><u>LIMS</u><br>RESP_PNL<br><br><b>Indicate approved outbreak number on requisition</b> | Nasopharyngeal swab   | <ul style="list-style-type: none"> <li>Collect only using synthetic tip swabs (ex. Dacron, Nylon, Polyester) with non-wooden shaft.</li> <li>Immediately after collection, place swab directly in 2-3ml of viral transport media (VTM).</li> </ul> <p>Respiratory Kit, Item # K305 available upon request.</p>  | <ul style="list-style-type: none"> <li>Shipment: Frozen cold packs at 2-8°C</li> <li>Delayed shipment: Refrigerate at 2-8°C. Ship on frozen cold packs at 2-8°C</li> </ul> <p><b>Biological Substance, Category B<br/>UN 3373</b></p>   | PCR                                 | 2 -5               | Central Office, CHDs      | Microbiology<br>Prattville       |
| <b>Ricinine</b>   | Call 334-290-6160   | Urine, 5 ml   | <a href="#">Urine collection guidance</a>   | <ul style="list-style-type: none"> <li>Storage: Freeze at ≤ -20°C</li> <li>Shipment: On dry ice ≤ -20°C</li> </ul> <p><b>Biological Substance, Category B<br/>UN 3373</b></p>   | LC/MS/MS                            | 1-3                | All providers             | Clinical Chemistry<br>Prattville |
| <b>Ringworm</b>   | See Fungus Culture  |   |   |   |                                     |                    |                           | Mycotics<br>Prattville           |
| <b>Rickettsia sp.</b><br>(R. typhi - Rickettsia, R. rickettsia - Rocky Mountain Spotted Fever)                                  | <u>RFLT</u><br>Microbiology - Reference<br><br><u>LIMS</u><br>REFMICRO<br><br><b>Please specify suspected agent</b>             | <ul style="list-style-type: none"> <li>Whole blood;</li> <li>Serum - paired acute &amp; convalescent, 1 ml (minimum, 3-5 preferred);</li> <li>Tissue - biopsy from rash or eschar;</li> <li>Swab of eschar</li> </ul> | <p>Acute specimen drawn within 14 days of onset. Convalescent specimen drawn 2-10 weeks after onset.</p> <ul style="list-style-type: none"> <li>Whole blood: Venipuncture - Collect in EDTA tube: Immediately after collection invert tube 8-10 times.</li> <li><a href="#">Serum: Venipuncture - Collect in SST or Red Top Serum Tube</a></li> </ul> <p>See 'Blood Tube Guidance' table on last page of this document for centrifugation and aliquoting instructions.</p> <ul style="list-style-type: none"> <li>Tissue and swab of eschar: <a href="#">See CDC guidance.</a></li> </ul> | <p><u>Blood Specimens</u></p> <ul style="list-style-type: none"> <li>Storage: Freeze acute serum at ≤ -20°C until convalescent specimen is collected.</li> <li>Shipment: Dry ice ≤ -20°C</li> </ul> <p><u>Other Specimens</u><br/><a href="#">See CDC guidance</a></p> <p><b>Biological Substance, Category B<br/>UN 3373</b></p> | BCL will forward to CDC for testing | 14                 | All Providers             | Microbiology<br>Prattville       |
| <b>Roundworm</b>  | See Intestinal Parasites  |   |   |   |                                     |                    |                           | Microbiology<br>Prattville       |

| Analyte   | Test Order Request ID  | Specimen/ Volume  | Collection Guidance or Method   | Storage and Shipment Temperature Requirements   | Method                       | TAT (Working Days) | Offered To  | Division & Lab   |
|---|--|---|---|---|------------------------------|--------------------|---|--|
| RPR   | See Syphilis Testing   |   |   |   |                              |                    |   | STD<br>Prattville & Mobile                                 |
| Rubella<br>(German Measles)   | <u>RFLT</u><br>Microbiology - Reference<br><br><u>LIMS</u><br>REFMICRO<br><br>List rash onset date | <ul style="list-style-type: none"> <li>Nasopharyngeal swab;</li> <li>Throat swab</li> </ul>   | Specimens should be collected 8-21 days past onset of rash. List rash onset date.   | <ul style="list-style-type: none"> <li>Shipment: Frozen cold packs at 2-8°C</li> <li>Delayed shipment: Refrigerate at 2-8°C. Ship on frozen cold packs at 2-8°C</li> </ul> <p><b>Biological Substance, Category B<br/>UN 3373</b></p>   | PCR<br><br>Forwarded to WSLH | 14                 | CHD only.<br><br>Contact the Central Office Immunization Division<br>(334) 206-5478 | Microbiology<br>Prattville                                 |
| Rubeola<br>(Red Measles)  | See <i>Morbillivirus</i>   |   |   |   |                              |                    |   | Microbiology<br>Prattville                                 |
| Salmonella  | <u>RFLT</u><br><i>Salmonella / Shigella</i><br><br><u>LIMS</u><br>SAL-SHIG                         | <u>Pure Culture (Isolate)</u><br>Preferred<br><br><u>Clinical Specimens</u><br>Whole blood<br><br>Stool (feces): See Enteric Fecal Screen | Whole blood: Venipuncture - Collect in EDTA tube: Immediately after collection, invert tube 8-10 times.   | <u>Pure Culture (Isolate)</u> <ul style="list-style-type: none"> <li>Shipment: Ambient</li> <li>Delayed Storage &amp; Shipment: Refrigerate at 2-8°C</li> </ul> <u>Clinical Specimens</u> <ul style="list-style-type: none"> <li>Storage &amp; Shipment: Refrigerate at 2-8°C. Ship on frozen cold packs at 2-8°C</li> </ul> <p><b>Biological Substance, Category B<br/>UN 3373</b></p> | Conventional methods         | 5-12               | All providers   | Microbiology<br>Prattville                                 |
| SARS-CoV-2  | See Coronavirus  |   |   |   |                              |                    |   | Microbiology<br>Myco-bacteriology, STD, Clinical Chemistry |
| Sarcoptes scabiei<br>(Scabies)  | <u>RFLT</u><br>Parasitology<br><br><u>LIMS</u><br>REFMICRO<br><br>Please specify suspected agent   | Skin scraping   | Use mineral oil on blade to scrape skin. Place on a slide & seal cover slip with clear fingernail polish. Put in a Petri dish or similar container. | Storage and Shipment: Ambient<br><br><b>Biological Substance, Category B<br/>UN 3373</b>  | Microscopy                   | 1-3                | All providers   | Microbiology<br>Prattville                                 |
| Shellfish<br>Shellstock<br>(Fecal Coliform, <i>E. coli</i> , Aerobic Plate Count) | Test request/<br>report form from Mobile lab   | 12-16 crustaceans in loosely closed, puncture-proof plastic bags.   | 200 g of meat & liquid after shucking; Minimum 12 crustaceans.  | <ul style="list-style-type: none"> <li>Iced &amp; held below 10°C, but not frozen; not submerged in cooler water.</li> <li>Must be received by laboratory within 24 hrs. of collection.</li> </ul>  | FDA-APHA MPN Method          | 2-4                | ADPH Bureau of Environmental Services   | Mobile   |
| Shigatoxin  | See <i>Escherichia coli</i>  |   |   |   |                              |                    |   | Microbiology<br>Prattville                                 |

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|----------------------------|--|---|--|--|----------------------|--------------------|--|-------------------------------------|
| <i>Shigella</i>            | RFLT<br><i>Salmonella / Shigella</i><br><br>LIMS<br>SAL-SHIG   | <u>Pure Culture (Isolate)</u><br>Preferred<br><br><u>Clinical Specimens</u><br>Whole blood<br><br>Stool (feces): See Enteric Fecal Screen | Whole blood: Venipuncture - Collect in EDTA tube: Immediately after collection, invert tube 8-10 times.  | <u>Pure Culture (Isolate)</u><br>• Shipment: Ambient<br>• Delayed Storage & Shipment: Refrigerate at 2-8°C ship on frozen packs at 2-8°C.<br><br><u>Clinical Specimens</u><br>• Shipment: Frozen cold packs at 2-8°C<br>• Delayed Storage & Shipment: Refrigerate at 2-8°C ship on frozen cold packs at 2-8°C<br><br><b>Biological Substance, Category B<br/>UN 3373</b> | Conventional methods | 5-12               | All providers  | Microbiology<br>Prattville          |
| Smallpox                   | See <i>Orthopoxvirus</i>   |   |  |  |                      |                    | All providers:<br>Prior consultation with Central Office - ID&O before submission (334) 206-5971 | Microbiology<br>Prattville          |
| Sodium                     | See Basic Metabolic Panel - See Comprehensive Metabolic Panel - See Electrolyte Panel - See Renal Function Panel |   |  |  |                      |                    |  | Clinical<br>Chemistry<br>Prattville |
| <i>Strongyloides</i>       | See Intestinal Parasites   |   |  |  |                      |                    |  | Microbiology<br>Prattville          |
| <i>Streptococcus</i>       | See Aerobic/Anaerobic Bacterial ID   |   |  |  |                      |                    |  | Microbiology<br>Prattville          |
| Sulfur Mustard metabolites | Call 334-290-6160  | • Serum, 1-5 ml;<br>• Urine, 1.5-5 ml   | • <a href="#">Serum: Venipuncture - Collect in SST or Red Top Serum Tube</a><br><br>See 'Blood Tube Guidance' table on last page of this document for centrifugation and aliquoting instructions.<br><br>• <a href="#">Urine collection guidance</a> | • Storage: Freeze at ≤ -20°C<br>• Shipment: On dry ice at ≤ -20°C<br><br><b>Biological Substance, Category B<br/>UN 3373</b>   | LC/MS/MS             | 1-3                | All providers  | Clinical<br>Chemistry<br>Prattville |



| Analyte   | Test Order Request ID  | Specimen/ Volume | Collection Guidance or Method  | Storage and Shipment Temperature Requirements  | Method   | TAT (Working Days) | Offered To                                    | Division & Lab                   |
|---|--|------------------|--|--|--|--------------------|---|----------------------------------|
| <b>Syphilis Testing,</b><br>(Syphilis Screen, RPR, TP-PA)<br><br>An RPR will be performed on all reactive Syphilis screens. TPPA will be performed on all nonreactive RPR specimens | <u>RFLT</u><br>Syphilis<br><br><u>LIMS</u><br>SYPH_SCRN<br><br><b>Please answer history of treatment question on requisition</b> | Serum, 3-5 ml    | <a href="#">Venipuncture - Collect in SST or Red Top Serum Tube</a><br><br>See 'Blood Tube Guidance' table on last page of this document for centrifugation and aliquoting instructions. | <ul style="list-style-type: none"> <li>Storage: Refrigerate at 2-8°C</li> <li>Shipment: Frozen cold packs at 2-8°C</li> </ul><br>Specimens must be received by the lab within 5 days from date of collection.<br><br><b>Biological Substance, Category B<br/>UN 3373</b> | Multiplex Immunoassay, RPR, <i>T. pallidum</i> Particle Agglutination (TPPA) | 1-7                | CHD, Federally funded HCP, Private physicians | STD<br>Prattville, Mobile        |
| <b>Tapeworm</b>   | See Intestinal Parasites   |                  |  |  |  |                    |   | Microbiology<br>Prattville       |
| <b>Tetramine</b>  | Call 334-290-6160  | Urine, 5 ml      | <a href="#">Urine collection guidance</a><br><br>Freeze ASAP   | <ul style="list-style-type: none"> <li>Storage: Freeze at ≤ -20°C</li> <li>Shipment: On dry ice at ≤ -20°C</li> </ul><br><b>Biological Substance, Category B<br/>UN 3373</b>   | GC/MS  | 1-2                | All providers                                 | Clinical Chemistry<br>Prattville |
| <b>Tetranitromethane</b><br>(HNPA)  | Call 334-290-6160  | Urine, 5 ml      | <a href="#">Urine collection guidance</a>  | <ul style="list-style-type: none"> <li>Storage: Freeze at ≤ -20°C</li> <li>Shipment: On dry ice at ≤ -20°C</li> </ul><br><b>Biological Substance, Category B<br/>UN 3373</b>   | LC/MS/MS   | 1-2                | All providers                                 | Clinical Chemistry<br>Prattville |
| <b>Thyroid Panel</b><br>TSH,<br>Total T4,<br>Free T4,<br>T-Uptake   | <u>RFLT</u><br>Chemistry Profile<br>Thyroid<br><br><u>LIMS</u><br>CHM_THYR_P   | Serum, 3 ml      | <a href="#">Venipuncture - Collect in SST or Red Top Serum Tube</a><br><br>See 'Blood Tube Guidance' table on last page of this document for centrifugation and aliquoting instructions. | <ul style="list-style-type: none"> <li>Shipment: Frozen cold packs at 2-8°C</li> <li>Delayed shipment: Refrigerate at 2-8°C. Ship on frozen cold packs at 2-8°C</li> </ul><br><b>Biological Substance, Category B<br/>UN 3373</b>  | Chemistry Analyzer   | 1-3                | CHD & Publicly Funded HCP                     | Clinical Chemistry<br>Prattville |
| <b>TIBC/UIBC</b><br>(Total Iron Binding Capacity/<br>Unbound Iron Binding Capacity)   | <u>RFLT</u><br>Chemistry Analyte(s):<br>TIBC/UIBC<br><br><u>LIMS</u><br>CHM TIBC   | Serum, 3 ml      | <a href="#">Venipuncture - Collect in SST or Red Top Serum Tube</a><br><br>See 'Blood Tube Guidance' table on last page of this document for centrifugation and aliquoting instructions. | <ul style="list-style-type: none"> <li>Shipment: Frozen cold packs at 2-8°C.</li> <li>Delayed shipment: Refrigerate at 2-8°C. Ship on frozen cold packs at 2-8°C</li> </ul><br><b>Biological Substance, Category B<br/>UN 3373</b>                                       | Chemistry Analyzer   | 1-3                | CHD & Publicly Funded HCP                     | Clinical Chemistry<br>Prattville |
| <b>Total Protein</b><br><br>See:<br>Hepatic Function Panel, Comprehensive Metabolic Panel   | <u>RFLT</u><br>Chemistry Analyte(s):<br>Total Protein<br><br><u>LIMS</u><br>CHM PRO TO   | Serum, 3 ml      | <a href="#">Venipuncture - Collect in SST or Red Top Serum Tube</a><br><br>See 'Blood Tube Guidance' table on last page of this document for centrifugation and aliquoting instructions. | <ul style="list-style-type: none"> <li>Shipment: Frozen cold packs at 2-8°C</li> <li>Delayed shipment: Refrigerate at 2-8°C. Ship on frozen cold packs at 2-8°C</li> </ul><br><b>Biological Substance, Category B<br/>UN 3373</b>  | Chemistry Analyzer   | 1-3                | CHD & Publicly Funded HCP                     | Clinical Chemistry<br>Prattville |

| Analyte   | Test Order Request ID  | Specimen/ Volume  | Collection Guidance or Method   | Storage and Shipment Temperature Requirements  | Method             | TAT (Working Days) | Offered To                | Division & Lab                   |
|---|--|-------------------|---|--|--------------------|--------------------|---------------------------|----------------------------------|
| <b>Toxic Elements Screen in Blood</b><br>Hg, Cd, Pb                   | Call 334-290-6160  | Whole blood, 3 ml | Whole blood: Venipuncture - EDTA tube: Immediately after collection, invert tube 8-10 times.<br><br>Include empty collection tube from same lot.  | <ul style="list-style-type: none"> <li>Storage and Shipment: Refrigerate at 2-8°C. Ship on frozen cold packs at 2-8°C</li> <li><b>DO NOT FREEZE</b></li> </ul> <b>Biological Substance, Category B UN 3373</b>             | ICP/MS             | 1-3                | All providers             | Clinical Chemistry<br>Prattville |
| <b>Toxic Elements Screen in urine.</b><br>As, Be, Cd, Ba, Tl, Pb, U   | Call 334-290-6160  | Urine, 5 ml       | <a href="#">Urine collection guidance</a><br><br>Include empty collection cup from same lot.  | Shipment: Frozen cold packs at 2-8°C<br><br><b>Biological Substance, Category B UN 3373</b>  | ICP/MS             | 1-3                | All providers             | Clinical Chemistry<br>Prattville |
| <b>Trichinella</b><br>(Trichinosis)                                   | See Intestinal Parasites   |                   |   |  |                    |                    |                           | Microbiology<br>Prattville       |
| <b>Trichuris</b>  | See Intestinal Parasites   |                   |   |  |                    |                    |                           | Microbiology<br>Prattville       |
| <b>Triglycerides</b><br><br>See:<br>Lipid Panel                       | <u>RFLT</u><br>Chemistry<br>Analyte(s):<br>Triglycerides<br><br><u>LIMS</u><br>CHM TRIGLY            | Serum, 3 ml       | <a href="#">Venipuncture - Collect in SST or Red Top Serum Tube</a><br><br>See 'Blood Tube Guidance' table on last page of this document for centrifugation and aliquoting instructions.<br><br><b>Patient should be fasting.</b> | <ul style="list-style-type: none"> <li>Shipment: Frozen cold packs at 2-8°C</li> <li>Delayed shipment: Refrigerate at 2-8°C. Ship on frozen cold packs 2-8°C</li> </ul> <b>Biological Substance, Category B UN 3373</b>    | Chemistry Analyzer | 1-3                | CHD & Publicly Funded HCP | Clinical Chemistry<br>Prattville |
| <b>Thyroid Stimulating Hormone (TSH)</b><br><br>See:<br>Thyroid Panel | <u>RFLT</u><br>Chemistry<br>Analyte(s):<br>Thyroid Stimulating Hormone<br><br><u>LIMS</u><br>CHM_TSH | Serum, 3 ml       | <a href="#">Venipuncture - Collect in SST or Red Top Serum Tube</a><br><br>See 'Blood Tube Guidance' table on last page of this document for centrifugation and aliquoting instructions.  | <ul style="list-style-type: none"> <li>Shipment: Frozen cold packs at 2-8°C</li> <li>Delayed shipment: Refrigerate at 2-8°C. Ship on frozen cold packs at 2-8°C</li> </ul> <b>Biological Substance, Category B UN 3373</b> | Chemistry Analyzer | 1-3                | CHD & Publicly Funded HCP | Clinical Chemistry<br>Prattville |
| <b>Tuberculosis</b>   | See Mycobacteria Culture   |                   |   |  |                    |                    |                           | Mycobacteriology                 |
| <b>Tularemia</b>  | See <i>Francisella tularensis</i>  |                   |   |  |                    |                    |                           | Microbiology<br>Prattville       |
| <b>Typhoid</b>  | See <i>Salmonella</i>  |                   |   |  |                    |                    |                           | Microbiology<br>Prattville       |
| <b>Uric Acid</b>  | <u>RFLT</u><br>Chemistry<br>Analyte(s):<br>Uric Acid<br><br><u>LIMS</u><br>CHM URIC A                | Serum, 3 ml       | <a href="#">Venipuncture - Collect in SST or Red Top Serum Tube</a><br><br>See 'Blood Tube Guidance' table on last page of this document for centrifugation and aliquoting instructions.  | <ul style="list-style-type: none"> <li>Shipment: Frozen cold packs at 2-8°C</li> <li>Delayed shipment: Refrigerate at 2-8°C. Ship on frozen cold packs at 2-8°C</li> </ul> <b>Biological Substance, Category B UN 3373</b> | Chemistry Analyzer | 1-3                | CHD & Publicly Funded HCP | Clinical Chemistry<br>Prattville |

| Analyte  | Test Order Request ID  | Specimen/ Volume   | Collection Guidance or Method  | Storage and Shipment Temperature Requirements   | Method  | TAT (Working Days) | Offered To  | Division & Lab                   |
|--|--|--|--|---|---|--------------------|---|----------------------------------|
| Urine, (Culture & Sensitivity)   | <u>RFLT</u><br>Urine Culture<br><br><u>LIMS</u><br>URINE_CULT          | Mid-stream, clean-catch urine, or catheterized specimen                                      | <a href="#">Urine culture collection guidance</a><br><br>Urine Culture Tubes, Item# U002 available upon request.   | <ul style="list-style-type: none"> <li>Shipment: Frozen cold packs at 2-25°C</li> </ul> Specimens should be received by lab within 48 hrs. of collection<br><br><b>Biological Substance, Category B<br/>UN 3373</b>   | Conventional methods, biochemical tests - MIC sensitivity | 1-7                | CHD - maternity programs only, federally funded HCP | Mobile                           |
| Varicella zoster virus (Chicken Pox)   | <u>RFLT</u><br>Microbiology - Reference<br><br><u>LIMS</u><br>REFMICRO | Lesion Swab  | <ul style="list-style-type: none"> <li>Vigorously scrape at exposed base of lesion. Avoid contamination of the specimen with blood to prevent the possibility of false negative results.</li> <li>Samples should be placed in viral transport medium.</li> </ul> | <ul style="list-style-type: none"> <li>Shipment: Frozen cold packs at 2-8°C</li> <li>Delayed Storage and Shipment: freeze at ≤ -70°C and ship on dry ice</li> </ul> <b>Biological Substance, Category B<br/>UN 3373</b>   | DFA & PCR<br><br>Forwarded to WSLH                        | 5-14               | All providers                                       | Microbiology<br>Prattville       |
| Vibrio sp.   | <u>RFLT</u><br>Vibrio<br><br><u>LIMS</u><br>VIBRIOSIS                  | <u>Pure Culture (Isolate)</u><br>Preferred<br><br><u>Clinical Specimens</u><br>Stool (feces) | <a href="#">Stool collection guidance</a>  | <u>Pure Culture (Isolate)</u><br>After isolating for pure culture & 24 hrs. incubation, <ul style="list-style-type: none"> <li>Shipment: Ambient</li> <li>Delayed Storage &amp; Shipment: Refrigerate at 2-8°C. Ship on frozen cold packs 2-8°C</li> </ul> <u>Clinical Specimens</u> <ul style="list-style-type: none"> <li>Shipment: Frozen cold packs at 2-8°C</li> <li>Delayed Storage &amp; Shipment: Refrigerate at 2-8°C. Ship on frozen cold packs at 2-8°C</li> </ul> <b>Biological Substance, Category B<br/>UN 3373</b> | Conventional methods, Slide agglutination                 | 3-14               | All providers                                       | Microbiology<br>Prattville       |
| <b>Volatile Organic Compounds (VOC)</b><br>Chloroform, 1,2-DCE, Benzene, CCl4, Toluene, PCE, Ethylbenzene, M&P Xylene, Styrene, O-Xylene | Call 334-290-6160  | Whole blood, 3 ml  | Whole blood: Venipuncture - Collect in potassium oxalate and sodium fluoride tube: Allow alcohol at prep site to evaporate before performing venipuncture. Immediately after collection, invert tube 8-10 times.   | <ul style="list-style-type: none"> <li>Shipment: Frozen cold packs at 2-8°C</li> <li><b>DO NOT FREEZE</b></li> </ul> <b>Biological Substance, Category B<br/>UN 3373</b>  | GC/MS   | 1-3                | CHD & Publicly Funded HCP                           | Clinical Chemistry<br>Prattville |

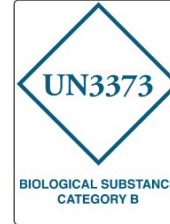
| Analyte   | Test Order Request ID   | Specimen/ Volume   | Collection Guidance or Method  | Storage and Shipment Temperature Requirements  | Method   | TAT (Working Days)   | Offered To   | Division & Lab                               |
|---|---|--|--|--|--|--|--|--|
| <b>Water, Drinking</b><br>(Total Coliform & <i>E. coli</i> )  | Form CL-12 kit  | Drinking water, 100 ml   | <ul style="list-style-type: none"> <li>Private Water Samples - Consultation with county health department environmental staff is encouraged for all private well samples.</li> <li>Public Water Samples - Coordination with ADEM is required</li> </ul> <p>Sample bottles may be obtained from state lab 334-290-3123 or local <a href="#">County Health Department</a>.</p> | <ul style="list-style-type: none"> <li>Water samples should be submitted to the lab the same day as collected. Must be received within 30 hrs. of collection.</li> <li>Submit samples Monday - Thursday</li> <li>Delayed Storage and Shipment: Refrigerate at 1-5°C (do not freeze) if sample cannot be submitted to the lab the same day as collected. Ship on frozen cold packs at 1-5°C.</li> </ul> | SM9223B (Colilert - Prattville and Mobile labs)<br><br>SM9221B<br>SM9221F (Multiple Tube Fermentation - Prattville lab only) | <ul style="list-style-type: none"> <li>Colilert Method 1-2</li> <li>Multiple Tube Fermentation Method 2-3</li> </ul> | Public water samples must be submitted by certified collectors.<br><br>Private individuals may submit water samples from their private wells only. | Sanitary Bacteriology<br>Prattville & Mobile |
| <b>Water, Environmental: Beach</b><br>( <i>Enterococcus</i> ) | Test request/report form from Mobile lab  | Surface water, 225 ml  | <ul style="list-style-type: none"> <li>Arrangements are made with lab prior to submission 251-344-6049.</li> <li>Samples must be iced at collection point &amp; submitted to lab within 6 hrs. of collection.</li> </ul>   | <ul style="list-style-type: none"> <li>Shipment: Place on ice as to not exceed 10°C in transit.</li> <li>Ensure samples are collected with a temperature control sample.</li> <li>Hand deliver samples on ice within 6 hrs. of collection</li> </ul>   | EPA Method 1600 for <i>Enterococcus</i>  | 1-2  | County & State Environmentalists   | Mobile                                       |
| <b>Water, Fluoride</b>  | Form ADPH-F-BCL-25/270  | Call BCL Sanitary Bacteriology at 334-290-3123   | Sample bottles and collection guidance may be obtained from state lab 334-290-3123.  | <ul style="list-style-type: none"> <li>Storage: Should not be stored.</li> <li>Shipment: Ambient</li> </ul>  | SM4500 F-Ion Selective Electrode Method  | Call BCL/ Sanitary Bacteriology  | Samples must be submitted through the ADPH Oral Health Division  | Sanitary Bacteriology<br>Prattville          |
| <b>Water, Phytoplankton</b><br>Harmful Algal Bloom            | Test request/report form from Mobile lab  | <ul style="list-style-type: none"> <li>Water, 1 Liter;</li> <li>May submit estuarine or marine water to be examined for plankton which may cause illness in humans, marine animals or birds, fish kills and discolored water.</li> </ul> | <ul style="list-style-type: none"> <li>Water collection: Preserve with acidified Lugol's solution.</li> <li>Live samples can be analyzed qualitatively, but not quantitatively.</li> </ul> <p>Phytoplankton report, water collection jars, &amp; preservative are available at the Mobile lab location.</p>  | <ul style="list-style-type: none"> <li>Notify lab of sample shipment: (251) 344-6049</li> <li>Water samples: Ambient, should not be stored.</li> <li>Preserved samples: Ambient, should be transported as soon as possible.</li> <li>Live samples: Ambient. Wrap in damp newspaper, but do not ice. Shipment of live samples should be done promptly.</li> </ul>                                       | Utermöhl Method with Microscopic examination   | 1-4  | State, county, & municipal agencies or prearranged contract  | Mobile                                       |
| <b>West Nile Virus, (Human Serology)</b>                      | <u>RFLT</u><br>Arboviral Testing<br><br><b>Please specify suspected agent</b><br><br><u>LIMS</u><br>WNV | Serum  | <a href="#">Venipuncture - Collect in SST or Red Top Serum Tube</a><br><br>See 'Blood Tube Guidance' table on last page of this document for centrifugation and aliquoting instructions.<br><br>Preferred: 1 ml of acute sample (≤ 13 days) and 1 ml of convalescent (14-21 days)  | <ul style="list-style-type: none"> <li>Shipment: Frozen cold packs at 2-8°C</li> <li>Delayed Storage and Shipment: freeze at ≤ -20°C and ship on dry ice at ≤ -20°C.</li> </ul> <p><b>Biological Substance, Category B UN 3373</b></p>   | ELISA<br><br>Forward to CDC  | 5 - 10   | All Providers  | Microbiology<br>Prattville                   |
| <b>Whooping Cough</b>   | See <i>Bordetella pertussis</i>   |  |  |  |  |  |  | Microbiology<br>Prattville                   |
| <b>Yeast (Culture)</b>  | See Fungus Culture  |  |  |  |  |  |  | Mycotics<br>Prattville                       |

| Analyte                          | Test Order Request ID   | Specimen/ Volume   | Collection Guidance or Method   | Storage and Shipment Temperature Requirements  | Method                                  | TAT (Working Days) | Offered To    | Division & Lab             |
|----------------------------------|---|--|---|--|---|--------------------|---------------|----------------------------|
| <i>Yersinia pestis</i>           | RFLT<br>Other test:<br><i>Yersinia</i><br><br>LIMS<br>REFMICRO<br><br><b>Please specify suspected agent</b> | Call BCL Micro-Reference Bacteriology 334-290-6186<br><br><u>Pure Culture (Isolate)</u><br>Preferred<br><br><u>Clinical Specimens</u><br>• Whole blood;<br>• Lymph node aspirate;<br>• Bronchial wash;<br>• Transtracheal aspirate;<br>• NP swab | <u>Pure Culture (Isolate)</u><br>Submit on tryptic soy agar, or other suitable slant.<br><br><u>Clinical Specimens</u><br>• Whole blood: Venipuncture - Collect in EDTA tube: Immediately after collection invert tube 8-10 times.<br>• Lymph node and trans-trachial aspirates - Follow facility protocol.<br>• Bronchial wash and NP swab - Follow facility protocol. | <b>Send immediately but call prior to shipment</b><br><br><u>Pure Culture (Isolate)</u><br>• Shipment: Ambient<br><br><u>Clinical Specimens</u><br>• Shipment: Frozen cold packs at 2-8°C<br><br><b>Infectious Substance, Category A<br/>UN 2814</b> | Conventional methods, PCR               | 3-14               | All providers | Microbiology<br>Prattville |
| <i>Yersinia sp.</i><br>(Culture) | RFLT<br>Microbiology - Reference<br><br>LIMS<br>REFMICRO<br><br><b>Please specify suspected agent</b>       | <u>Pure Culture (Isolate)</u><br>Preferred<br><br><u>Clinical Specimens</u><br>• Blood culture bottle;<br>• Whole blood;<br>• Stool (feces)  | <u>Pure Culture (Isolate)</u><br>Preferred: Submit on tryptic soy agar, or other suitable slant.<br><br><u>Clinical Specimens</u><br>• Blood culture bottle: Refer to manufacturer's procedures<br>• Whole blood: Venipuncture - Collect in EDTA tube: Immediately after collection invert tube 8-10 times.<br>• <a href="#">Stool collection guidance</a>              | <u>Pure Culture (Isolate)</u><br>Storage and Shipment: Ambient<br><br><u>Clinical Specimens</u><br>• Send immediately<br>• Shipment: Frozen cold packs at 2-8°C<br><br><b>Biological Substance, Category B<br/>UN 3373</b>                           | Conventional methods, Biochemical tests | 3-10               | All providers | Microbiology<br>Prattville |
| <b>Zika</b>                      | See Arbovirus (Dengue, Chikungunya, Zika)   |  |   |  |   |                    |               | Microbiology<br>Prattville |









## Acronym Reference

|  |   |  |
|--|---|--|
| ADEM - Alabama Department of Environmental Management  | FDA - Food and Drug Administration                          | NTM - Nontuberculous Mycobacteria              |
| ADPH - Alabama Department of Public Health             | g - Grams   | PCR - Polymerase Chain Reaction                |
| AFB - Acid Fast Bacteria                               | GC/MS - Gas Chromatography/Mass Spectrometry                | PVA - Polyvinyl Alcohol                        |
| APHA - American Public Health Association              | HCP - Health Care Provider                                  | RFLT - Requisition Form for Laboratory Testing |
| ASAP - As Soon As Possible                             | HD - Health Department                                      | RPR - Rapid Plasma Reagin                      |
| BCL - Bureau of Clinical Laboratories - (334) 290-6130 | ICP/MS - Inductively coupled plasma mass spectrometry       | SST - Serum Separator Tube                     |
| CDC - Centers for Disease Control and Prevention       | ID&O - Infectious Disease and Outbreaks - (334) 206-5971    | STD - Sexually Transmitted Disease             |
| CHD - County Health Department                         | LC/MS/MS - Liquid Chromatography w/Tandem Mass Spectrometry | TAT - Turn Around Time                         |
| CSF - Cerebrospinal Fluid                              | LIMS - Laboratory Information Management System (LabOnline) | TB - Tuberculosis                              |
| CT - Chemical Terrorism                                | MIC - Minimum Inhibitory Concentration                      | Temp - Temperature                             |
| DFA - Direct Fluorescent Antibody                      | mg - Milligram  | PVA - Polyvinyl Alcohol                        |
| EDTA - Ethylenediaminetetraacetic Acid                 | ml - Milliliter   | RFLT - Requisition Form for Laboratory Testing |
| ELISA - Enzyme linked immunosorbent assay              | MPN - Most Probable Number                                  | WSLH - Wisconsin State Laboratory of Hygiene   |
| EID - Emerging Infectious Diseases                     | NAAT - Nucleic Acid Amplification Test                      |  |
| EPA - Environmental Protection Agency                  | NP - Nasopharyngeal   |  |

## Shipping Guidance Links



## Blood Tube Guidance

| Cap color   |  | Additive   | Laboratory Use             | Note/Comment  |
|---|--|--|----------------------------|---|
|  Gold       |  Red/Gray   | Clot activator and gel for serum separation.                                     | Serum, whole clotted blood | Also called "SST"<br><u>Instructions:</u> Immediately after collection, invert tube(s) 5 times. Allow tube to sit undisturbed and upright for 30 minutes or until clotted but no longer than 60 minutes. Centrifuge within 2 hours of collection. Use a splash shield to open tube and remove serum immediately after centrifugation. Serum can be poured off or pipetted off. Place serum in transport tube, cap, and properly label.<br><br><b>Specimens not labeled "SERUM", "SER", or "S" will not be tested but reported "Unsatisfactory".</b>   |
|  Red        |  Red        | Glass - Silicone coated<br>Plastic - Clot activator, silicone coated             | Serum, whole clotted blood | Also called "Red Top Serum Tube"<br><u>Instructions:</u> Immediately after collection, invert tube(s) 5 times. Allow tube to sit undisturbed and upright for 60 minutes or until clotted but no longer than 75 minutes. Centrifuge within 2 hours of collection. Use a splash shield to open tube and remove serum immediately after centrifugation. Because there is no gel barrier, serum must be drawn off, not poured. Place serum in transport tube, cap, and properly label.<br><br><b>Specimens not labeled "SERUM", "SER", or "S" will not be tested but reported "Unsatisfactory".</b> |
|  Lavender |  Lavender | Glass - Liquid K <sub>3</sub> EDTA<br>Plastic - Spray-coated K <sub>2</sub> EDTA | Plasma, whole blood        | Also called "EDTA Tube"<br><u>Aliquoting Instructions:</u> Immediately after collection, invert tube 8-10 times. Centrifuge tube immediately. Use a splash shield to open tube and remove plasma immediately after centrifugation. Because there is no gel barrier, plasma must be pipetted off, not poured. Place plasma in transport tube, cap, and properly label.<br><br><b>Specimens not labeled "PLASMA", "PLA", or "P" will not be tested but reported "Unsatisfactory".</b>   |
|  Gray     |  Gray     | Potassium oxalate/sodium fluoride  | Whole blood                | Potassium oxalate and sodium fluoride tube.   |