



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



Analyte	Test Order Request ID	Specimen/ Volume	Collection Guidance or Method	Storage and Shipment Temperature Requirements	Method	TAT (Working Days)	Offered To	Division & Lab
Abrine	Call 334-290-6160	Urine, 5 ml	Urine collection guidance	<ul style="list-style-type: none"> Storage: Freeze ≤ -20°C Shipment: on Dry Ice <p>Biological Substance, Category B UN 3373</p>	LC/MS/MS	1-2	All providers	Clinical Chemistry Prattville
Aerobic/Anaerobic Bacterial ID	Microbiology - Reference <u>LIMS</u> REFMICRO Please specify suspected agent	<u>Pure Culture (Isolate)</u> Preferred <u>Clinical Specimens</u> <ul style="list-style-type: none"> Blood Culture Bottle Bodily Fluids based on suspected agent 	<u>Pure Culture (Isolate)</u> After inoculating incubate 24 hours before shipment. <u>Clinical Specimens</u> <ul style="list-style-type: none"> Blood Culture Bottle - Refer to manufacturer's procedures Bodily Fluids - Sterile collection: method based on source. 	<u>Pure Culture (Isolate)</u> <ul style="list-style-type: none"> Shipment: Ambient Delayed Storage & Shipment: Refrigerate at 2-8°C <u>Clinical Specimens</u> <ul style="list-style-type: none"> Shipment: Frozen cold packs at 2-8°C Delayed Storage & Shipment: Refrigerate at 2-8°C <p>Biological Substance, Category B UN 3373 Unless suspected then Infectious Substance, Category A UN 2814</p>	Conventional methods	7-30	All providers	Microbiology Prattville
Alanine Amino-Transferase (ALT, SGPT) See: Comprehensive Metabolic Panel, Hepatic Function Panel	<u>RFLT</u> Chemistry Analyte(s): ALT SGPT <u>LIMS</u> CHM ALT	Serum, 3 ml	Venipuncture - Collect in SST: Invert tube(s) 5 times. Allow tube to sit undisturbed and upright for 30 minutes. Centrifuge within 2 hours of collection. Use splash shield to open tube and remove serum immediately after centrifugation. Place in serum transport tube and properly label.	<ul style="list-style-type: none"> Storage: Refrigerate at 2-8°C Shipment: Frozen cold packs at 2-8°C <p>Biological Substance, Category B UN 3373</p>	Chemistry Analyzer	1-3	CHD & Publicly Funded HCP	Clinical Chemistry Prattville
Albumin See: Comprehensive Metabolic Panel, Hepatic Function Panel	<u>RFLT</u> Chemistry Analyte(s): Albumin <u>LIMS</u> CHM ALBUMI	Serum, 3 ml	Venipuncture - Collect in SST: Invert tube(s) 5 times. Allow tube to sit undisturbed and upright for 30 minutes. Centrifuge within 2 hours of collection. Use splash shield to open tube and remove serum immediately after centrifugation. Place in serum transport tube and properly label.	<ul style="list-style-type: none"> Storage: Refrigerate at 2-8°C Shipment: Frozen cold packs at 2-8°C <p>Biological Substance, Category B UN 3373</p>	Chemistry Analyzer	1-3	CHD & Publicly Funded HCP	Clinical Chemistry Prattville

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Alkaline Phosphatase See: Comprehensive Metabolic Panel, Hepatic Function Panel	<u>RFLT</u> Chemistry Analyte(s): ALK PH	Serum, 3 ml	Venipuncture - Collect in SST: Invert tube(s) 5 times. Allow tube to sit undisturbed and upright for 30 minutes. Centrifuge within 2 hours of collection. Use splash shield to open tube and remove serum immediately after centrifugation. Place in serum transport tube and properly label.	<ul style="list-style-type: none"> Storage: Refrigerate at 2-8°C Shipment: Frozen cold packs at 2-8°C <p>Biological Substance, Category B UN 3373</p>	Chemistry Analyzer	1-3	CHD & Publicly Funded HCP	Clinical Chemistry Prattville
	<u>LIMS</u> CHM ALK PH							
Amylase	<u>RFLT</u> Chemistry Analyte(s): Amylase	Serum, 3 ml	Venipuncture - Collect in SST: Invert tube(s) 5 times. Allow tube to sit undisturbed and upright for 30 minutes. Centrifuge within 2 hours of collection.	<ul style="list-style-type: none"> Storage: Refrigerate at 2-8°C Shipment: Frozen cold packs at 2-8°C <p>Biological Substance, Category B UN 3373</p>	Chemistry Analyzer	1-3	CHD & Publicly Funded HCP	Clinical Chemistry Prattville
	<u>LIMS</u> CHM AMYLAS							
Arbovirus (Dengue, Chikungunya, Zika)	<u>RFLT</u> Arboviral Testing	<ul style="list-style-type: none"> Serum, 2-3 ml; Urine, 2-3 ml (for Zika only, must be paired with serum); Amniotic fluid (for Zika only, must be paired with serum) 	<ul style="list-style-type: none"> Invert tube(s) 5 times. Allow tube to sit undisturbed and upright for 30 minutes. Centrifuge within 2 hours of collection. Collect urine in sterile container. Urine collection guidance. Use provider guidance for amniotic fluid collection. 	<ul style="list-style-type: none"> Storage: Refrigerate at 2-8°C Shipment: Frozen cold packs at 2-8°C Specimens must be submitted within 7 days of collection <p>Biological Substance, Category B UN 3373</p>	PCR Forward to CDC with pre-approval	2-5	All providers: requires prior consultation with ID&O before submission (334) 206-5971	Microbiology Prattville
	<u>LIMS</u> ARBO_PCR							
Ascaris	See Intestinal Parasites							Microbiology Prattville
Aspartate Amino-transferase (AST, SGOT) See: Comprehensive Metabolic Panel, Hepatic Function Panel	<u>RFLT</u> Chemistry Analyte(s): AST, SGOT	Serum, 3 ml	Venipuncture - Collect in SST: Invert tube(s) 5 times. Allow tube to sit undisturbed and upright for 30 minutes. Centrifuge within 2 hours of collection. Use splash shield to open tube and remove serum immediately after centrifugation. Place in serum transport tube and properly label.	<ul style="list-style-type: none"> Storage: Refrigerate at 2-8°C Shipment: Frozen cold packs at 2-8°C <p>Biological Substance, Category B UN 3373</p>	Chemistry Analyzer	1-3	CHD & Publicly Funded HCP	Clinical Chemistry Prattville
	<u>LIMS</u> CHM AST							
Aspergillus, (Culture)	See Fungus Culture							Mycotics Prattville

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<i>Bacillus anthracis</i>	<u>RFLT</u> Other test: <i>Bacillus anthracis</i> <u>LIMS</u> REFMICRO Please specify suspected agent	Call BCL Micro-Reference Bacteriology 334-290-6186 <u>Pure Culture (Isolate)</u> Preferred <u>Clinical Specimens</u> • Whole blood; • Serum; • Respiratory aspirate; • Clinical swabs	<u>Pure Culture (Isolate)</u> Submit on chocolate agar slant, tryptic soy agar, or other suitable slant. <u>Clinical Specimens</u> • Whole Blood Venipuncture - Collect in EDTA tube: Immediately after collection invert tube 8-10 times. • Invert tube(s) 5 times. Allow tube to sit undisturbed and upright for 30 minutes. Centrifuge within 2 hours of collection • Respiratory aspirate	Send immediately but call prior to shipment <u>Pure Culture (Isolate)</u> Shipment: Ambient <u>Clinical Specimens</u> Shipment: Frozen cold packs at 2-8°C Infectious Substance, Category A UN 2814	Conventional methods, PCR	3-14	All providers	Microbiology Prattville
Basic Metabolic Panel Glucose, BUN, Creatine, Sodium, Potassium, Chloride, Bicarbonate, Calcium	<u>RFLT</u> Chemistry Panel: Basic Metabolic Panel <u>LIMS</u> CHM BAS ME	Serum, 3 ml	Venipuncture - Collect in SST: Invert tube(s) 5 times. Allow tube to sit undisturbed and upright for 30 minutes. Centrifuge within 2 hours of collection. Use splash shield to open tube and remove serum immediately after centrifugation. Place in serum transport tube and properly label.	• Storage: Refrigerate at 2-8°C • Shipment: Frozen cold packs at 2-8°C Biological Substance, Category B UN 3373	Chemistry Analyzer	1-3	CHD & Publicly Funded HCP	Clinical Chemistry Prattville
Bicarbonate (CO₂)	See Basic Metabolic Panel or Comprehensive Metabolic Panel or Electrolyte Panel or Renal Function Panel							Clinical Chemistry
Bilirubin (Total) See: Comprehensive Metabolic Panel, Hepatic Function Panel	<u>RFLT</u> Chemistry Analyte(s): Bilirubin Total <u>LIMS</u> CHM BIL TO	Serum, 3 ml	Venipuncture - Collect in SST: Invert tube(s) 5 times. Allow tube to sit undisturbed and upright for 30 minutes. Centrifuge within 2 hours of collection. Use splash shield to open tube and remove serum immediately after centrifugation. Place in serum transport tube and properly label.	• Transport specimens intended for light-sensitive analyte testing in foil wrapping • Storage: Refrigerate at 2-8°C • Shipment: Frozen cold packs at 2-8°C Biological Substance, Category B UN 3373	Chemistry Analyzer	1-3	CHD & Publicly Funded HCP	Clinical Chemistry Prattville
Bilirubin (Direct) See: Hepatic Function Panel	<u>RFLT</u> Chemistry Analyte(s): Bilirubin Direct <u>LIMS</u> CHM BIL DI		This is a light sensitive analyte. Protect from light during storage and delivery.					
Bioterrorism Sample	FBI consultation required prior to submission							Microbiology Prattville
Blastomyces (Culture)	See Fungus Culture							Mycotics Prattville

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Blood Parasites	<u>RFLT</u> Parasitology <u>LIMS</u> BLPARA	<ul style="list-style-type: none"> Whole blood; Blood smear - Include thick and thin smears, 2 slides each. <ul style="list-style-type: none"> 1 pair stained 1 pair unstained 	<ul style="list-style-type: none"> Whole blood venipuncture - Collect in EDTA tube: Immediately after collection invert tube 8-10 times. Blood Smear - Capillary blood draw <p>Citrated, oxalated, or heparinized blood may not adhere to slides & may interfere with staining.</p>	<u>Whole Blood</u> <ul style="list-style-type: none"> Shipment: Frozen cold packs at 2-8°C Delayed shipment: Refrigerate at 2-8°C <u>Blood Smear</u> <ul style="list-style-type: none"> Allow slides to air dry thoroughly before packaging Storage and Shipment: Ambient <p>Biological Substance, Category B UN 3373</p>	Microscopy	3-5	All providers	Microbiology Prattville
Blood Urea Nitrogen (BUN) See: Basic Metabolic Panel, Comprehensive Metabolic Panel, Renal Function Panel	<u>RFLT</u> Chemistry Analyte(s): BUN <u>LIMS</u> CHM BUN	Serum, 3 ml	Venipuncture - Collect in SST: Invert tube(s) 5 times. Allow tube to sit undisturbed and upright for 30 minutes. Centrifuge within 2 hours of collection. Use splash shield to open tube and remove serum immediately after centrifugation. Place in serum transport tube and properly label.	<ul style="list-style-type: none"> Storage: Refrigerate at 2-8°C Shipment: Frozen cold packs at 2-8°C <p>Biological Substance, Category B UN 3373</p>	Chemistry Analyzer	1-3	CHD & Publicly Funded HCP	Clinical Chemistry Prattville
<i>Bordetella pertussis</i> (Culture/PCR)	<u>RFLT</u> <ul style="list-style-type: none"> Microbiology - Reference Microbiology - PCR <p>Please specify suspected agent</p> <u>LIMS</u> <ul style="list-style-type: none"> BORCUL BPPCR 	<u>Pure Culture (Isolate)</u> Preferred <u>Clinical Specimens</u> <ul style="list-style-type: none"> Nasopharyngeal (NP) aspirate/wash, 1 ml in sterile tube; NP aspirate/wash in Regan-Lowe media; NP swab, sterile tube; NP swab in Regan-Lowe media 	<u>Pure Culture (Isolate)</u> <ul style="list-style-type: none"> Inoculate Jones-Kendrick (JK) agar plate & streak for isolation. Incubate plate for 48 hrs. in moist environment at 35°C. <u>Clinical Specimens</u> <ul style="list-style-type: none"> NP aspirate/wash: Drip 2 drops of wash specimen over swab. Push swab into Regan-Lowe media. NP swab: Push swab into Regan-Lowe media. 	<u>Pure Culture (Isolate)</u> <ul style="list-style-type: none"> Shipment: Ambient in moist environment Delayed Storage & Shipment: Refrigerate 2-8°C <u>Clinical Specimens</u> <ul style="list-style-type: none"> Shipment: Frozen cold packs at 2-8°C Delayed Storage & Shipment: Refrigerate 2-8°C <p>Biological Substance, Category B UN 3373</p>	Conventional methods, PCR	2-10	All providers	Microbiology Prattville
Botulinum toxin	<u>RFLT</u> Other test: Botulinum toxin <u>LIMS</u> REFMICRO Please specify suspected agent	Call BCL Micro-Reference Bacteriology 334-290-6186 <ul style="list-style-type: none"> Food; Serum, 5 ml; Stool, 5 g 	<ul style="list-style-type: none"> Food - Leave food specimens in original container if possible. Serum: Collect in SST - Invert tube(s) 5 times. Allow tube to sit undisturbed and upright for 30 minutes. Centrifuge within 2 hours of collection. Stool collection guidance 	<p>Send immediately but call prior to shipment</p> <ul style="list-style-type: none"> Refrigerate at 2-8°C until shipment Ship food separately from clinical samples <p>Biological Substance, Category B UN 3373</p>	Conventional methods, PCR, Mouse bioassay	1-14	All providers: Requires prior approval with Central Office-ID&O within 4 hours (334) 206-5971	Microbiology Prattville

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<i>Brucella</i>	<u>RFLT</u> Other test: <i>Brucella</i> <u>LIMS</u> REFMICRO Please specify suspected agent	Call BCL Micro-Reference Bacteriology 334-290-6186 <u>Pure Culture (Isolate)</u> Preferred <u>Clinical Specimens</u> • Whole blood; • Serum	<u>Pure Culture (Isolate)</u> • Submit on chocolate agar slant, tryptic soy agar, or other suitable slant. <u>Clinical Specimens</u> • Whole Blood Venipuncture - Collect in EDTA tube: Immediately after collection invert tube 8-10 times. • Serum: Collect in SST - Invert tube(s) 5 times. Allow tube to sit undisturbed and upright for 30 minutes. Centrifuge within 2 hours of collection.	Send immediately but call prior to shipment <u>Pure Culture (Isolate)</u> Shipment: Ambient <u>Clinical Specimens</u> Shipment: Frozen cold packs at 2-8°C Infectious Substance, Category A UN 2814	Conventional methods, PCR	3-14	All providers	Microbiology Prattville
<i>Burkholderia mallei</i> and <i>pseudomallei</i> (Glanders disease)	<u>RFLT</u> Other test: Burkholderia <u>LIMS</u> REFMICRO Please specify suspected agent	Call BCL Micro-Reference Bacteriology 334-290-6186 <u>Pure Culture (Isolate)</u> Preferred <u>Clinical Specimens</u> • Whole blood; • Serum	<u>Pure Culture (Isolate)</u> • Submit on appropriate media <u>Clinical Specimens</u> • Whole Blood Venipuncture - Collect in EDTA tube: Immediately after collection invert tube 8-10 times. • Serum: Collect in SST - Invert tube(s) 5 times. Allow tube to sit undisturbed and upright for 30 minutes. Centrifuge within 2 hours of collection.	Send immediately but call prior to shipment <u>Pure Culture (Isolate)</u> Shipment: Ambient <u>Clinical Specimens</u> Shipment: Frozen cold packs at 2-8°C Infectious Substance, Category A UN 2814	Conventional methods, PCR	3-14	All providers	Microbiology Prattville
Calcium See: Basic Metabolic Panel Comprehensive Metabolic Panel	<u>RFLT</u> Chemistry Analyte(s): Calcium <u>LIMS</u> CHM CALCIU	Serum, 3 ml	Venipuncture - Collect in SST: Invert tube(s) 5 times. Allow tube to sit undisturbed and upright for 30 minutes. Centrifuge within 2 hours of collection. Use splash shield to open tube and remove serum immediately after centrifugation. Place in serum transport tube and properly label.	• Storage: Refrigerate at 2-8°C • Shipment: Frozen cold packs at 2-8°C Biological Substance, Category B UN 3373	Chemistry Analyzer	1-3	CHD & Publicly Funded HCP	Clinical Chemistry Prattville

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<i>Campylobacter</i>	<u>RFLT</u> Campylobacter <u>LIMS</u> CAMPY	<u>Pure Culture (Isolate)</u> Preferred <u>Clinical Specimens</u> Whole stool (feces) and stool in preservatives	Stool collection guidance	<u>Pure Culture (Isolate)</u> After isolating for pure culture & 24 hrs. incubation, <ul style="list-style-type: none"> • Shipment: Ambient and microaerophilic if available • Delayed Storage & Shipment: Refrigerate 2-8°C <u>Clinical Specimens</u> <ul style="list-style-type: none"> • Shipment: Frozen cold packs at 2-8°C • Delayed Storage & Shipment: Refrigerate 2-8°C Biological Substance, Category B UN 3373	Conventional methods	5-10	All providers	Microbiology Prattville
<i>Candida</i> (Culture)	See Fungus Culture							Mycotics Prattville
<i>Chikungunya</i>	See Arbovirus							Microbiology Prattville
CT/GC/TV <i>Chlamydia trachomatis</i> (CT), <i>Neisseria gonorrhoeae</i> (GC), <i>Trichomonas vaginalis</i> (TV)	<u>RFLT</u> CT/GC/TV <u>LIMS</u> CT-GC-TV	<ul style="list-style-type: none"> • Male urethral swab; • Endocervical swab; • Urine specimen; • Vaginal swab <ul style="list-style-type: none"> • Oral and rectal swabs are tested for CT/GC only. For patients 14 and under or pregnant patients only urine samples will be accepted.	<ul style="list-style-type: none"> • Endocervical & Male urethral swab • Urine specimen - First void of urine for the day • Vaginal swab • Oral swab & Rectal swab <ul style="list-style-type: none"> • Chlamydia/GC Unisex Swabs, Item# CF02 available upon request. • Chlamydia/GC Urine Spec Kit, Item# CM01 available upon request. 	<ul style="list-style-type: none"> • Storage: 2-30°C • Shipment: Frozen cold packs at 2-30°C Biological Substance, Category B UN 3373	NAAT DNA Amplification test (PCR)	1-7	CHD & Publicly Funded HCP, Private physicians	STD Prattville & Mobile
Chloride	See Basic Metabolic Panel - See Comprehensive Metabolic Panel - See Electrolyte Panel - See Renal Function Panel							Clinical Chemistry
Cholesterol See: Lipid Panel	<u>RFLT</u> Chemistry Analyte(s): Cholesterol <u>LIMS</u> CHM CHOLES	Serum, 3 ml	Venipuncture - Collect in SST: Invert tube(s) 5 times. Allow tube to sit undisturbed and upright for 30 minutes. Centrifuge within 2 hours of collection. Use splash shield to open tube and remove serum immediately after centrifugation. Place in serum transport tube and properly label.	<ul style="list-style-type: none"> • Storage: Refrigerate at 2-8°C • Shipment: Frozen cold packs at 2-8°C Biological Substance, Category B UN 3373	Chemistry Analyzer	1-3	CHD & Publicly Funded HCP	Clinical Chemistry Prattville
<i>Clostridium botulinum</i>	See Botulinum toxin							Microbiology Prattville

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

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Comprehensive Metabolic ALT(SGPT), Albumin, Alkaline Phosphatase, AST(SGOT), Bicarbonate, Bilirubin Total, BUN, Calcium, Chloride, Creatine, Glucose, Potassium, Protein Total, Sodium	<u>RFLT</u> Chemistry Panel: Comprehensive Metabolic <u>LIMS</u> CHM CMP ME	Serum, 3 ml	Venipuncture - Collect in SST: Invert tube(s) 5 times. Allow tube to sit undisturbed and upright for 30 minutes. Centrifuge within 2 hours of collection. Use splash shield to open tube and remove serum immediately after centrifugation. Place in serum transport tube and properly label. This is a light sensitive analyte. Protect from light during storage and delivery.	<ul style="list-style-type: none"> Transport specimens intended for light-sensitive analyte testing in foil wrapping Storage: Refrigerate at 2-8°C Shipment: Frozen cold packs at 2-8°C <p align="center">Biological Substance, Category B UN 3373</p>	Chemistry Analyzer	1-3	CHD & Publicly Funded HCP	Clinical Chemistry Prattville
Coronavirus (MERS-CoV)	<u>RFLT</u> Microbiology - PCR: MERS-CoV <u>LIMS</u> REFMICRO Please specify suspected agent	<ul style="list-style-type: none"> Nasopharyngeal swab; Sputum; Lower respiratory aspirate; Serum 	<ul style="list-style-type: none"> Swabs should be placed in viral transport media. Sputum & aspirates collected in a sterile tube. Serum: Venipuncture - Collect in SST: Invert tube(s) 5 times. Allow tube to sit undisturbed and upright for 30 minutes. Centrifuge within 2 hours of collection 	<u>Samples <72hrs:</u> <ul style="list-style-type: none"> Storage: Refrigerate at 2-8°C Shipment: Frozen cold packs at 2-8°C <u>Samples >72hrs:</u> <ul style="list-style-type: none"> Storage: Freeze at -20°C Shipment: Dry Ice <p align="center">Biological Substance, Category B UN 3373</p>	PCR	2-5	All providers: requires prior consultation with ID&O before submission (334) 206-5971	Microbiology Prattville
Coronavirus (SARS-CoV2, COVID-19)	<u>RFLT</u> COVID19 <u>LIMS</u> COVID-19	<ul style="list-style-type: none"> Nasal Swab; Nasopharyngeal swab; Nasal wash-aspirate <p>Specimens placed in viral transport medium containing guanidium thiocyanate will be deemed unsatisfactory.</p>	<ul style="list-style-type: none"> Nasal Swab Nasopharyngeal swab Nasal wash & aspirates collected in a sterile tube. <p>Swabs should be placed in viral transport media.</p>	<u>Packaging Guidance</u> <ul style="list-style-type: none"> Storage: Refrigerate at 2-8°C Shipment: Frozen cold packs at 2-8°C Specimens should be submitted within 3 days of collection. <p align="center">Biological Substance, Category B UN 3373</p>	PCR	5 -7	All Providers	Microbiology, Mycobacteriology, STD, Clinical Chemistry Prattville
Corynebacterium diphtheriae (Culture)	<u>RFLT</u> Microbiology - Reference <u>LIMS</u> REFMICRO Please specify suspected agent	Pure Culture (Isolate)	Submit on sheep's blood agar or other suitable slant.	Shipment: Ambient Biological Substance, Category B UN 3373	Conventional methods	3-12	All providers	Microbiology Prattville

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<i>Coxiella burnetii</i> (Q-Fever)	<u>RFLT</u> Microbiology - PCR <u>LIMS</u> REFMICRO Please specify suspected agent	Whole blood	Venipuncture - Collect in EDTA tube: Immediately after collection, invert tube 8-10 times.	<ul style="list-style-type: none"> Shipment: Frozen cold packs at 2-8°C Delayed shipment: Refrigerate at 2-8°C <p>Biological Substance, Category B UN 3373</p>	PCR	2-5	All providers: Prior consultation with Central Office - ID&O before submission (334) 206-5971	Microbiology Prattville
Crab meat (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"> Iced & held below 10°C, but not frozen; not submerged in cooler water Must be received by laboratory within 24 hrs. of collection 	FDA-APHA MPN Method	1-7	ADPH Bureau of Environmental Services	Mobile
Creatinine See: Basic Metabolic Panel, Comprehensive Metabolic Panel. Renal Function Panel	<u>RFLT</u> Chemistry Analyte(s): Creatinine <u>LIMS</u> CHM CREATI	Serum, 3 ml	Venipuncture - Collect in SST: Invert tube(s) 5 times. Allow tube to sit undisturbed and upright for 30 minutes. Centrifuge within 2 hours of collection. Use splash shield to open tube and remove serum immediately after centrifugation. Place in serum transport tube and properly label.	<ul style="list-style-type: none"> Storage: Refrigerate at 2-8°C Shipment: Frozen cold packs at 2-8°C <p>Biological Substance, Category B UN 3373</p>	Chemistry Analyzer	1-3	CHD & Publicly Funded HCP	Clinical Chemistry Prattville
<i>Cryptococcus</i> (Culture)	See Fungus Culture							Mycotics Prattville
<i>Cryptosporidium</i>	<u>RFLT</u> Parasitology <u>LIMS</u> OANDP Please specify suspected agent	<ul style="list-style-type: none"> Stool (feces), 1 tsp in Zn PVA, and 1 tsp 10% formalin <p>For surveillance only:</p> <ul style="list-style-type: none"> Stool (feces), 1 tsp in Cary Blair media 	Stool collection guidance <ul style="list-style-type: none"> Intestinal Parasite Kit, Item# K303 available upon request. 	Shipment: Ambient Biological Substance, Category B UN 3373	Microscopy, PCR (for surveillance only)	1-5	All providers	Microbiology Prattville
Cyanide	Call 334-290-6160	Whole blood, 1 ml	Venipuncture - Collect in EDTA tube: Immediately after collection invert tube 8-10 times.	<ul style="list-style-type: none"> Storage: Refrigerate at 2-8°C Shipment: Frozen cold packs at 2-8°C <p>Do not freeze</p> <p>Biological Substance, Category B UN 3373</p>	GC/MS	1-3	All providers	Clinical Chemistry Prattville
Dairy Products	Call BCL - Sanitary Bacteriology						State & CHD Environmenta lists	Sanitary Bacteriology Prattville
Dengue	See Arbovirus (Dengue, Chikungunya, Zika)							Microbiology Prattville

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Dermatophytes (Culture)	See Fungus Culture							Mycotics Prattville
Diphtheria	See <i>Corynebacterium diphtheriae</i>							Microbiology Prattville
Ebola virus	RFLT Microbiology - PCR LIMS REFMICRO Please specify suspected agent	Whole blood, 2-4 ml	Call BCL Micro- Reference Bacteriology 334-290-6186	Call prior to shipment • Shipment: Frozen cold packs at 2-8°C • Delayed Storage: Refrigerate 2-8°C Infectious Substance, Category A UN 2814	PCR	1-2	All providers: Prior consultation with Central Office - ID&O before submission (334) 206-5971	Microbiology Prattville
Electrolytes Panel Na, K, Cl, CO2	RFLT Chemistry Panel Electrolytes LIMS CHM ELEC P	Serum, 3 ml	Venipuncture - Collect in SST: Invert tube(s) 5 times. Allow tube to sit undisturbed and upright for 30 minutes. Centrifuge within 2 hours of collection. Use splash shield to open tube and remove serum immediately after centrifugation. Place in serum transport tube and properly label.	• Storage: Refrigerate at 2-8°C • Shipment: Frozen cold packs at 2-8°C Biological Substance, Category B UN 3373	Chemistry Analyzer	1-3	CHD & Publicly Funded HCP	Clinical Chemistry Prattville
Entamoeba sp.	See Intestinal Parasites							Microbiology Prattville
Enteric fecal screen (<i>Salmonella</i> , <i>Shigella</i> , shigatoxin producing <i>E. coli</i>)	RFLT Enteric Fecal Screen LIMS ENT_FEC_SN	• Stool (feces) in Cary Blair media (preferred); • Stool (feces), 1 tsp; • Rectal swab	Stool collection guidance	• Shipment: Frozen cold packs at 2-8°C • Delayed shipment: Refrigerate at 2-8°C • Cary Blair media: Ship ambient Biological Substance, Category B UN 3373	Conventional methods	5-12	All providers	Microbiology Prattville
<i>Escherichia coli</i> (Serotyping, toxin testing)	RFLT <i>E. coli</i> LIMS • E_COLI (Isolate only) • SHIGATOX (GN broth)	• Pure Culture (Isolate); • Gram-negative (GN) broth		• Pure Culture (Isolate) - After isolating a pure culture & 24 hr. incubation, ship immediately, ambient • Broth shipment - After inoculation, lid should be wrapped with parafilm, ship on frozen cold packs at 2-8°C • Storage: Refrigerate at 2-8°C Shigatoxin Positive Strains: Infectious Substance, Category A UN 2814 Unknown Toxin Status Samples: Biological Substance, Category B UN 3373	Conventional methods	7-14	All providers	Microbiology 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
Ferritin	<u>RFLT</u> Chemistry Analyte(s): Ferritin <u>LIMS</u> CHM FERRIN	Serum, 3 ml	Venipuncture - Collect in SST: Invert tube(s) 5 times. Allow tube to sit undisturbed and upright for 30 minutes. Centrifuge within 2 hours of collection. Use splash shield to open tube and remove serum immediately after centrifugation. Place in serum transport tube and properly label.	<ul style="list-style-type: none"> Storage: Refrigerate at 2-8°C Shipment: Frozen cold packs at 2-8°C <p>Biological Substance, Category B UN 3373</p>	Chemistry Analyzer	1-3	CHD & Publicly Funded HCP	Clinical Chemistry Prattville
Francisella tularensis (Tularemia)	<u>RFLT</u> Other test: <i>Francisella</i> <u>LIMS</u> REFMICRO Please specify suspected agent	Call BCL Micro-Reference Bacteriology 334-290-6186 <u>Pure Culture (Isolate)</u> Preferred <u>Clinical Specimens</u> <ul style="list-style-type: none"> Whole blood; Aspirates; Swab of ulcer 	<u>Pure Culture (Isolate)</u> Submit on chocolate agar slant, tryptic soy agar, or other suitable slant. <u>Clinical Specimens</u> <ul style="list-style-type: none"> Venipuncture - Collect in EDTA tube: Immediately after collection invert tube 8-10 times. Aspirates: Use facility protocol based on aspirate site. 	<p>Send immediately but call prior to shipment.</p> <p><u>Pure Culture (Isolate)</u></p> <ul style="list-style-type: none"> Shipment: Ambient <p><u>Clinical Specimens</u></p> <ul style="list-style-type: none"> Shipment: Frozen cold packs at 2-8°C <p>Infectious Substance, Category A UN 2814</p>	Conventional methods, PCR	3-14	All providers	Microbiology Prattville
Fungus, Culture (Yeasts & Molds)	<u>RFLT</u> Mycology <u>LIMS</u> <ul style="list-style-type: none"> RMYC REFMYC 	<u>Pure Culture (Isolate)</u> Preferred <u>Clinical Specimens</u> <ul style="list-style-type: none"> Respiratory, 5-10 ml; Tissue, 1g; Body fluids, 10-15 ml; CSF, 2-3 ml, minimum recommended volumes (Optimal 10 ml) 	See “ <u>Mycology Specimen Requirements</u> ” on ADPH website. <ul style="list-style-type: none"> Mycology Kit, Item# K306 available upon request. Mailers are provided to HCP 	<p><u>Pure Culture (Isolate)</u></p> <ul style="list-style-type: none"> Storage and Shipment: Ambient <p><u>Clinical Specimens</u></p> <ul style="list-style-type: none"> Storage and Shipment: <ul style="list-style-type: none"> Blood, bone marrow, CSF, gastric fluid (Add 100 mg sodium carbonate to gastric within 1 hr) Ambient Other samples: Ambient up to 24 hours. Delayed: Refrigerate at 2-8°C <p>Biological Substance, Category B UN 3373</p>	Microscopy morphology, Biochemicals Maldi-Tof, heat tolerance tests CDC referral if unable to identify AND specimen collection was sterile	1 -31	All providers	Mycotics Prattville
Gamma Glutamyl Transpeptidase (GGTP)	<u>RFLT</u> Chemistry Analyte(s): GGTP <u>LIMS</u> CHM GGTP	Serum, 3 ml	Venipuncture - Collect in SST: Invert tube(s) 5 times. Allow tube to sit undisturbed and upright for 30 minutes. Centrifuge within 2 hours of collection. Use splash shield to open tube and remove serum immediately after centrifugation. Place in serum transport tube and properly label.	<ul style="list-style-type: none"> Storage: Refrigerate at 2-8°C Shipment: Frozen cold packs at 2-8°C <p>Biological Substance, Category B UN 3373</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
Gastrointestinal Panel See BioFire Gastro Panel Menu	<u>RFLT</u> Other test: Gastro panel <u>LIMS</u> GASTRO_PNL Indicate approved outbreak number on requisition	Stool (feces), 1 tsp preferred in Cary Blair media	Stool collection guidance	<ul style="list-style-type: none"> Stool: Frozen cold packs at 2-8°C Cary Blair: Ambient Delayed shipment: Refrigerate at 2-8°C <p>Biological Substance, Category B UN 3373</p>	PCR	2-5	Central Office, CHDs	Microbiology Prattville
<i>Giardia</i>	See Intestinal Parasites							Microbiology Prattville
Glucose See: Basic Metabolic Panel Comprehensive Metabolic Panel, Renal Function Panel	<u>RFLT</u> Chemistry Analyte(s): Glucose <u>LIMS</u> CHM GLUCOS	Serum, 3 ml	Venipuncture - Collect in SST: Invert tube(s) 5 times. Allow tube to sit undisturbed and upright for 30 minutes. Centrifuge within 2 hours of collection. Use splash shield to open tube and remove serum immediately after centrifugation. Place in serum transport tube and properly label.	<ul style="list-style-type: none"> Storage: Refrigerate at 2-8°C Shipment: Frozen cold packs at 2-8°C <p>Biological Substance, Category B UN 3373</p>	Chemistry Analyzer	1-3	CHD & Publicly Funded HCP	Clinical Chemistry Prattville
Haemophilus, (Culture & Serotyping)	<u>RFLT</u> Microbiology - Reference, Microbiology - PCR <u>LIMS</u> HFLU	<u>Pure Culture (Isolate)</u> Preferred <u>Clinical Specimens</u> <ul style="list-style-type: none"> Whole blood; CSF; Bronchoalveolar lavage; Conjunctival swab 	<u>Pure Culture (Isolate)</u> After inoculation on chocolate agar incubate 24 hours before shipment. <u>Clinical Specimens</u> <ul style="list-style-type: none"> Venipuncture - EDTA tube: Immediately after collection invert tube 8-10 times. CSF - use facility protocol Bronchoalveolar lavage - use facility protocol Conjunctival swab - use facility protocol 	<u>Pure Culture (Isolate)</u> <ul style="list-style-type: none"> Shipment: Ambient Ship immediately <u>Clinical Specimens</u> <ul style="list-style-type: none"> Shipment: Frozen cold packs at 2-8°C Delayed shipment: Refrigerate at 2-8°C <p>Biological Substance, Category B UN 3373</p>	Conventional methods, PCR	4-8	All providers	Microbiology Prattville
Hematocrit, (Automated)	See Complete Blood Count							Clinical Chemistry Prattville
Hemoglobin, (Automated)	See Complete Blood Count							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
Hepatic Function Panel AST(SGOT), ALT(SGPT), Alkaline Phosphatase, Total Bilirubin, Direct bilirubin, Total Protein, Albumin, Phosphorus	<u>RFLT</u> Chemistry Panel: Hepatic Function Panel <u>LIMS</u> CHM HEP PN	Serum, 3 ml	Venipuncture - Collect in SST: Invert tube(s) 5 times. Allow tube to sit undisturbed and upright for 30 minutes. Centrifuge within 2 hours of collection. Use splash shield to open tube and remove serum immediately after centrifugation. Place in serum transport tube and properly label. This is a light sensitive analyte. Protect from light during storage and delivery.	<ul style="list-style-type: none"> Transport specimens intended for light-sensitive analyte testing in foil wrapping Storage: Refrigerate at 2-8°C Shipment: Frozen cold packs at 2-8°C <p>Biological Substance, Category B UN 3373</p>	Chemistry Analyzer	1-3	CHD & Publicly Funded HCP	Clinical Chemistry Prattville
Hepatitis A (IgM)	<u>RFLT</u> Hepatitis A-IgM <u>LIMS</u> HEP-A-ABDY	Serum, 3 ml	Venipuncture - Collect in SST: Invert tube(s) 5 times. Allow tube to sit undisturbed and upright for 30 minutes. Centrifuge within 2 hours of collection. Use splash shield to open tube and remove serum immediately after centrifugation. Place in serum transport tube and properly label.	<ul style="list-style-type: none"> Storage: Refrigerate at 2-8°C Shipment: Frozen cold packs at 2-8°C <p>Biological Substance, Category B UN 3373</p>	Chemistry Analyzer	1-5	CHD & Publicly Funded HCP	Clinical Chemistry Prattville
Hepatitis B (Surface Antigen)	<u>RFLT</u> Hepatitis B-Surface Antigen <u>LIMS</u> HEP-B-AGEN	Serum, 3 ml	Venipuncture - Collect in SST: Invert tube(s) 5 times. Allow tube to sit undisturbed and upright for 30 minutes. Centrifuge within 2 hours of collection. Use splash shield to open tube and remove serum immediately after centrifugation. Place in serum transport tube and properly label.	<ul style="list-style-type: none"> Storage: Refrigerate at 2-8°C Shipment: Frozen cold packs at 2-8°C <p>Biological Substance, Category B UN 3373</p>	Chemistry Analyzer	1-5	CHD & Publicly Funded HCP	Clinical Chemistry Prattville
Hepatitis B (Surface Antibody)	<u>RFLT</u> Hepatitis B-Surface Antibody <u>LIMS</u> HEP-B-ABDY	Serum, 3 ml	Venipuncture - Collect in SST: Invert tube(s) 5 times. Allow tube to sit undisturbed and upright for 30 minutes. Centrifuge within 2 hours of collection. Use splash shield to open tube and remove serum immediately after centrifugation. Place in serum transport tube and properly label.	<ul style="list-style-type: none"> Storage: Refrigerate at 2-8°C Shipment: Frozen cold packs at 2-8°C <p>Biological Substance, Category B UN 3373</p>	Chemistry Analyzer	1-5	CHD & Publicly Funded HCP	Clinical Chemistry Prattville
Hepatitis C (Screening)	<u>RFLT</u> Hepatitis C-Antibody <u>LIMS</u> HEP-C-ABDY	Serum, 3 ml	Venipuncture - Collect in SST: Invert tube(s) 5 times. Allow tube to sit undisturbed and upright for 30 minutes. Centrifuge within 2 hours of collection. Use splash shield to open tube and remove serum immediately after centrifugation. Place in serum transport tube and properly label.	<ul style="list-style-type: none"> Storage: Refrigerate at 2-8°C Shipment: Frozen cold packs at 2-8°C <p>Biological Substance, Category B UN 3373</p>	Chemistry Analyzer	1-5	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
Hepatitis C (Viral Load)	<u>RFLT</u> Hepatitis C-Viral Load <u>LIMS</u> HEP_C_VL	<ul style="list-style-type: none"> Plasma, 3 ml; Serum, 3 ml 	<ul style="list-style-type: none"> Venipuncture - Collect in EDTA tube: Immediately after collection invert tube 8-10 times. Centrifuge tube. Remove plasma immediately after centrifugation & place in transport tube. Venipuncture - Collect in SST: Invert tube(s) 5 times. Allow tube to sit undisturbed and upright for 30 minutes. Centrifuge within 2 hours of collection. Use splash shield to open tube and remove serum immediately after centrifugation. Place in serum transport tube and properly label. <p>Specimens not labeled "PLASMA" will not be tested but reported "Unsatisfactory".</p>	<ul style="list-style-type: none"> 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 <p>Biological Substance, Category B UN 3373</p>	Chemistry Analyzer	1-5	CHD & Publicly Funded HCP	Clinical Chemistry Prattville
High-Density Lipoprotein Cholesterol (HDL) See: Lipid Panel	<u>RFLT</u> Chemistry Analyte(S) HDL <u>LIMS</u> CHM CHL HD	Serum, 3 ml	Venipuncture - Collect in SST: Invert tube(s) 5 times. Allow tube to sit undisturbed and upright for 30 minutes. Centrifuge within 2 hours of collection. Use splash shield to open tube and remove serum immediately after centrifugation. Place in serum transport tube and properly label. Patient should be fasting.	<ul style="list-style-type: none"> Storage: Refrigerate at 2-8°C Shipment: Frozen cold packs at 2-8°C <p>Biological Substance, Category B UN 3373</p>	Chemistry Analyzer	1-3	CHD & Publicly Funded HCP	Clinical Chemistry Prattville
Histoplasmosis (Culture)	See Fungus Culture							Mycotics Prattville
HIV (Ag/AB Screening)	<u>RFLT</u> HIV Screening <u>LIMS</u> HIV-SCRN	Serum, 3-5 ml	Venipuncture - Collect in SST: Invert tube(s) 5 times. Allow tube to sit undisturbed and upright for 30 minutes. Centrifuge within 2 hours of collection Serum must be drawn off, not poured after centrifugation.	<p><u>Samples <4 days:</u></p> <ul style="list-style-type: none"> Storage: Room temperature at <37°C Shipment: Room temperature cold packs. <p><u>Samples 5-7 days:</u></p> <ul style="list-style-type: none"> Storage: Refrigerate at 2-8°C Shipment: Frozen cold packs at 2-8°C <p>Specimens must be received in lab within 7 days of collection.</p> <p>Biological Substance, Category B UN 3373</p>	BioPlex Multiplex Immunoassay	1 -5	CHD Federally funded HCP, Private physicians	STD 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 1 (Confirmation NAAT)	NAAT testing will only be performed on specimens with a reactive screen and non-reactive or indeterminate Geenius	Serum, 2 ml	Venipuncture - Collect in SST: Invert tube(s) 5 times. Allow tube to sit undisturbed and upright for 30 minutes. Centrifuge within 2 hours of collection Serum must be drawn off, not poured after centrifugation.	<ul style="list-style-type: none"> Storage: Refrigerate at 2-8°C Shipment: Frozen cold packs at 2-8°C <p align="center">Biological Substance, Category B UN 3373</p>	NAAT DNA Amplification test (PCR)	5-10	CHD & publicly funded HCP	STD Prattville
HIV 1/2 (Differentiation Geenius)	Geenius is only performed on specimens with a reactive screening result.	Serum, 3-5 ml	Venipuncture - Collect in SST: Invert tube(s) 5 times. Allow tube to sit undisturbed and upright for 30 minutes. Centrifuge within 2 hours of collection. Serum must be drawn off, not poured after centrifugation.	<p><u>Samples < 48 hrs. old:</u></p> <ul style="list-style-type: none"> Storage: 20-30°C Shipment: Room temperature cold packs at 20-30°C <p><u>Samples 3-7 days old:</u></p> <ul style="list-style-type: none"> Refrigerate at 2-8°C Shipment: Frozen cold packs at 2-8°C <p align="center">Biological Substance, Category B UN 3373</p>	Geenius	1-5	CHD, Federally funded HCP, Private physicians	STD Prattville
HIV (Viral Load)	<u>RFLT</u> HIV Viral Load <u>LIMS</u> HIV VL	Plasma, 3-5 ml	Venipuncture - Collect in EDTA tube: Immediately after collection invert tube 8-10 times. Centrifuge tube immediately. Using a splash shield and pipette remove plasma immediately after centrifugation & place in transport tube. Label transport tube "PLASMA." Specimens not labeled "PLASMA" will not be tested but reported "Unsatisfactory".	<ul style="list-style-type: none"> Upon separation EDTA plasma may be stored in secondary tubes for up to 6 days at 2-8°C or up to 12 weeks at ≤ -18°C <p align="center">Biological Substance, Category B UN 3373</p>	Chemistry Analyzer	5-10	HIV/Viral Load Grant approved participants & CHD	Clinical Chemistry Prattville
Hookworm	See Intestinal Parasites							Microbiology Prattville
Influenza	<u>RFLT</u> Influenza <u>LIMS</u> INFLUENZA	<ul style="list-style-type: none"> Upper respiratory specimens; Lower respiratory specimens <p>No calcium alginate swabs accepted.</p>	See Influenza Laboratory Testing, additional resources , on the ADPH website for detailed instructions. • Respiratory Kit, Item# K305 available upon request.	<ul style="list-style-type: none"> Storage: Refrigerate at 2-8°C Shipment: Frozen cold packs at 2-8°C <p align="center">Biological Substance, Category B UN 3373</p>	PCR	5-7	All providers If Avian Influenza suspected, contact Central Office - ID&O or State Health Lab for instructions (334) 206-5971	Microbiology, Mycobacteriology, 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
Intestinal Parasites	<u>RFLT</u> Parasitology <u>LIMS</u> OANDP Please specify suspected agent	<ul style="list-style-type: none"> Stool (feces), 1 tsp in Zn PVA, and 1 tsp 10% formalin Adult worm 	<ul style="list-style-type: none"> Stool collection guidance Place adult worm in bottle containing formalin. Intestinal Parasite Kit, Item# K303 available upon request. 	<ul style="list-style-type: none"> Storage and Shipment: Ambient <p>Biological Substance, Category B UN 3373</p>	Microscopy	3-7	All providers	Microbiology Prattville
Iron	<u>RFLT</u> Chemistry Analyte(s): Iron <u>LIMS</u> CHM IRON	Serum, 3 ml	<p>Venipuncture - Collect in SST: Invert tube(s) 5 times. Allow tube to sit undisturbed and upright for 30 minutes. Centrifuge within 2 hours of collection. Use splash shield to open tube and remove serum immediately after centrifugation. Place in serum transport tube and properly label.</p> <p>Patient should be fasting.</p>	<ul style="list-style-type: none"> Shipment: Frozen cold packs at 2-8°C Delayed shipment: Refrigerate at 2-8°C <p>Biological Substance, Category B UN 3373</p>	Chemistry Analyzer	1-3	CHD & Publicly Funded HCP	Chemistry Prattville
Lactate Dehydrogenase (LDH)	<u>RFLT</u> Chemistry Analyte(s): LDH <u>LIMS</u> CHN LDH	Serum, 3 ml	<p>Venipuncture - Collect in SST: Invert tube(s) 5 times. Allow tube to sit undisturbed and upright for 30 minutes. Centrifuge within 2 hours of collection. Use splash shield to open tube and remove serum immediately after centrifugation. Place in serum transport tube and properly label.</p>	<ul style="list-style-type: none"> Shipment: Frozen cold packs at 2-8°C Delayed shipment: Refrigerate at 2-8°C <p>Biological Substance, Category B UN 3373</p>	Chemistry Analyzer	1-3	CHD & Publicly Funded HCP	Clinical Chemistry Prattville
Lead, Blood	<u>RFLT</u> Blood Lead <u>LIMS</u> BLOOD_LEAD	Whole blood, 200 µl	<ul style="list-style-type: none"> Venipuncture - Collect in EDTA tube: Immediately after collection invert tube 8-10 times. Capillary draw into Microvette tube <ul style="list-style-type: none"> Fingerstick for children >1 yr. Heel stick for infants <1 yr. <p>Ensure sample is filled to indicator line and properly capped. Immediately after collection invert tube 8-10 times.</p>	<ul style="list-style-type: none"> Shipment: 2-30°C Delayed shipment: Refrigerate at 2-8°C <p>Biological Substance, Category B UN 3373</p>	Atomic Absorption	5	All providers	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
Lead, Environmental	Environmental Lead Sample Log sent by email	<ul style="list-style-type: none"> • paint sample, > 0.2g • soil sample, > 0.5 g • water sample, >10 mL • wipe sample, ghost wipes 	<ul style="list-style-type: none"> • 50 mL polypropylene centrifuge tube • resealable plastic bag • All collection and testing procedures conform to the methodology and guidelines set forth in the Environmental Lead Quality Assurance Manual (ADPH-F-BCL-175). 	<ul style="list-style-type: none"> • Storage & Shipment: Ambient 	Atomic Absorption Spectrometry	14	Environmental lists with the ADPH Bureau of Environmental Services	Clinical Chemistry Prattville
Legionella	<u>RFLT</u> Microbiology - Reference Please specify suspected agent <u>LIMS</u> LEGION	<u>Pure Culture (Isolate)</u> Preferred <u>Clinical Specimens</u> <ul style="list-style-type: none"> • Pleural fluid; • Trans-tracheal aspirates; • Bronchial washings; • Sputum; • Lung tissue 	<u>Pure Culture (Isolate)</u> Submit on buffered charcoal yeast extract with cystine agar <u>Clinical Specimens</u> <ul style="list-style-type: none"> • Trans-tracheal aspirates • Bronchial washings • Sputum <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"> • Shipment: Ambient • Delayed shipment: Ambient <u>Clinical Specimens</u> <ul style="list-style-type: none"> • Shipment: Frozen cold packs at 2-8°C • Delayed shipment: Refrigerate at 2-8°C Biological Substance, Category B UN 3373	Conventional methods	10-16	All providers	Microbiology Prattville
Leptospira	<u>RFLT</u> Microbiology - Reference <u>LIMS</u> REFMICRO Please specify suspected agent	Call BCL Micro-Reference Bacteriology 334-290-6186 Provider must send sample to BCL. BCL will forward to CDC for testing.						Microbiology Prattville
Lipid Panel Cholesterol, HDL, LDL, Triglycerides	<u>RFLT</u> Chemistry Panel Lipid <u>LIMS</u> HM LIP PN	Serum, 3 ml	Venipuncture - Collect in SST: Invert tube(s) 5 times. Allow tube to sit undisturbed and upright for 30 minutes. Centrifuge within 2 hours of collection. Use splash shield to open tube and remove serum immediately after centrifugation. Place in serum transport tube and properly label. Patient should be fasting.	<ul style="list-style-type: none"> • Shipment: Frozen cold packs at 2-8°C • Delayed shipment: Refrigerate at 2-8°C Biological Substance, Category B UN 3373	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
<i>Listeria</i>	<u>RFLT</u> Listeria <u>LIMS</u> REFMICRO	<u>Pure Culture (Isolate)</u> Preferred <u>Clinical Specimens</u> • Whole Blood; • CSF; • Stool (feces) - Process ASAP or refrigerate up to 48 hrs.	• Whole Blood: Venipuncture - Collect in EDTA tube: Immediately after collection, invert tube 8-10 times. • CSF - use facility protocol • Stool collection guidance	<u>Pure Culture (Isolate)</u> • After isolating a pure culture & 24 hr. incubation, ship immediately, ambient <u>Clinical Specimens</u> • Shipment: Frozen cold packs at 2- 8°C • Delayed shipment: Refrigerate at 2- 8°C Biological Substance, Category B UN 3373	Conventional methods	5-7	All providers	Microbiology Prattville
Low-Density Lipoprotein Cholesterol (LDL) See: Lipid Panel	<u>RFLT</u> Chemistry Analyte(s): LDL <u>LIMS</u> CHM CHL LD	Serum, 3 ml	Venipuncture - Collect in SST: Invert tube(s) 5 times. Allow tube to sit undisturbed and upright for 30 minutes. Centrifuge within 2 hours of collection. Use splash shield to open tube and remove serum immediately after centrifugation. Place in serum transport tube and properly label.	• Shipment: Frozen cold packs at 2- 8°C • Delayed shipment: Refrigerate at 2- 8°C Biological Substance, Category B UN 3373	Chemistry Analyzer	1-3	CHD & Publicly Funded HCP	Clinical Chemistry Prattville
Lymphocyte (Subset Enumeration) CD4 CD8 CD4/CD8 Ratio	<u>RFLT</u> Lymphocyte Subset (CD4) <u>LIMS</u> LYMPH	Whole blood, 5 ml	Venipuncture - Collect in EDTA tube: Immediately after collection, invert tube 8-10 times. 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.	Do NOT store - Ship immediately. DO NOT REFRIGERATE • Storage: Room temperature 18-26°C • Shipment: With room temperature cold packs at 18-26°C Must arrive within 24 hrs of collection. Biological Substance, Category B UN 3373	Flow Cytometry	1-3	CHD & Publicly Funded HCP	Clinical Chemistry Prattville
Lymphocyte (Subset Enumeration & Percent) CD4 CD8 CD4/CD8 Ratio Percent CD4	<u>RFLT</u> Lymphocyte Subset (CD4) % <u>LIMS</u> LYMPH_PCT	Whole blood, 5 ml	Venipuncture - Collect in EDTA tube: Immediately after collection, invert tube 8-10 times. 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.	Do NOT store - Ship immediately. DO NOT REFRIGERATE • Storage: Room temperature 18-26°C • Shipment: With room temperature cold packs at 18-26°C Must arrive within 24 hrs of collection. Biological Substance, Category B UN 3373	Flow Cytometry	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
Malaria	See <i>Plasmodium</i> sp.							Microbiology Prattville
Measles (German)	See Rubella							Microbiology Prattville
Milk	See Dairy Products							Sanitary Bacteriology
Monkeypox	See <i>Orthopoxvirus</i>							Microbiology Prattville
Morbillivirus (Measles/Red Measles/ Rubeola)	<u>RFLT</u> Microbiology - Reference <u>LIMS</u> REFMICRO List rash onset date	<ul style="list-style-type: none"> Nasopharyngeal swab; Throat swab 	<ul style="list-style-type: none"> Nasopharyngeal and Throat Swab. Specimens should be collected 8-21 days past onset of rash. 	<ul style="list-style-type: none"> Shipment: Frozen cold packs at 2-8°C Delayed shipment: Refrigerate at 2-8°C <p align="center">Biological Substance, Category B UN 3373</p>	PCR Forwarded to WSLH	14 days	CHD only. Contact the Central Office Immunization Division (334) 206-5978	Microbiology Prattville
Mycobacteria, (Smear and Culture, Culture, & Drug Susceptibility Testing)	<u>RFLT</u> AFB <u>LIMS</u> <ul style="list-style-type: none"> AFB AFBC 	<u>Pure Culture (Isolate)</u> Preferred <u>Clinical Specimens</u> <ul style="list-style-type: none"> Respiratory, 5-10 ml; Tissue, 1g; Body fluids, 10-15 ml; CSF, 2-3 ml, Minimum recommended volumes (Optimum is 10 ml) <p>Swabs are not recommended.</p>	See TB Specimen Requirements on ADPH website for collection procedure. <ul style="list-style-type: none"> AFB Kit, Item # K300 available upon request. Mailers are provided to HCP. 	<u>Pure Culture (Isolate):</u> <ul style="list-style-type: none"> Storage: 35°-38° C Shipment: Ambient <u>Clinical Specimens</u> <ul style="list-style-type: none"> Storage and Shipment: <ul style="list-style-type: none"> Blood, bone marrow, CSF, gastric fluid (Add 100 mg sodium carbonate to gastric within 1 hr). Ambient Other samples Ambient up to 24 hours. Delayed: Refrigerate at 2-8°C <p><u>Clinical Specimens & NTM cultures:</u> Biological Substance, Category B UN 3373</p> <p align="center"><u>TB cultures</u> Infectious Substance, Category A UN 2814</p>	Microscopy, Morphology, Accuprobe, PCR, MalDI-ToF, 16S	1-45	All providers	Myco-bacteriology 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> (Meningitis, Meningococcal)	<u>RFLT</u> Microbiology - Reference Please specify suspected agent <u>LIMS</u> NMEN	<u>Pure Culture (Isolate)</u> Preferred <u>Clinical Specimens</u> • Whole Blood; • CSF; • Bronchoalveolar lavage; • Nasopharyngeal swab; • Oropharyngeal swabs	<u>Pure Culture (Isolate)</u> After inoculation on chocolate agar incubate 24 hours before shipment. <u>Clinical Specimens</u> • Venipuncture - EDTA tube: Immediately after collection invert tube 8-10 times. • CSF - use facility protocol • Bronchoalveolar lavage - use facility protocol • Nasopharyngeal or oropharyngeal swabs	<u>Pure Culture (Isolate)</u> • Shipment: Ambient • Ship immediately <u>Clinical Specimens</u> • Shipment: Frozen cold packs at 2-8°C • Delayed shipment: Refrigerate at 2-8°C Biological Substance, Category B UN 3373	PCR, Conventional Methods	4-10	All providers	Microbiology Prattville
Newborn Screening	NBS Order Forms	Refer to newborn screening collection guidelines						Newborn Screening Prattville
<i>Norovirus</i>	<u>RFLT</u> Microbiology - PCR <u>LIMS</u> NOROVIRUS Indicate approved outbreak number on requisition	Stool (feces) whole, unpreserved. Minimum of 0.5 grams or 0.5 ml if liquid.	Stool collection guidance Screw-cap container WITHOUT media	• Shipment: Frozen cold packs at 2-8°C • Delayed shipment: Refrigerate at 2-8°C Biological Substance, Category B UN 3373	PCR	2-5	Central Office, CHDs	Microbiology Prattville
Organo-phosphate Nerve agent metabolites Sarin, Soman, Cyclosarin, VX, Russian VX	Call 334-290-6160	• Serum, 1 ml; • Urine, 1 ml	• Serum: Collect in SST - Invert tube(s) 5 times. Allow tube to sit undisturbed and upright for 30 minutes. Centrifuge within 2 hours of collection. • Urine collection guidance	Storage: Freeze ≤ -20°C Shipment: on Dry Ice Biological Substance, Category B UN 3373	LC/MS/MS	1-2	All providers	Clinical Chemistry Prattville
<i>Orthopoxvirus</i>	<u>RFLT</u> Microbiology - PCR <u>LIMS</u> REFMICRO Please specify suspected agent	• Lesion swab, 2 per lesion	CDC Collection Guidance	• Storage: Refrigerated or frozen within 1hr of collection. • Shipment: Dry ice is strongly recommended, but frozen ice packs are acceptable. • Must be received within 7 days of collection. Biological Substance, Category B UN 3373	PCR	1-5	All Provider after approval from ADPH medical officer Testing Consultation Form	Microbiology 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
Oyster Growing Waters (Fecal Coliform)	Test request/ report form from Mobile lab	• Water, 225 ml	Collection guidance may be obtained from Mobile lab (251) 344-6049.	<ul style="list-style-type: none"> Storage: Iced & held below 10°C Sample must be tested within 30 hrs. of collection <p>DO NOT FREEZE</p>	Modified A-1 MPN	1-2	ADPH Bureau of Environmental Services	Mobile
Oyster Growing Water: Wet Storage (Total Coliforms)	Test request/ report form from Mobile lab	• Water, 225 ml	<ul style="list-style-type: none"> Collection guidance may be obtained from Mobile lab (251) 344-6049. Ultra Violet (UV) treated process water from storage tanks. 	<ul style="list-style-type: none"> Storage: Iced & held below 10°C Sample must be tested within 30 hrs. of collection 	Ten tube single dilution MPN	2-4	ADPH Bureau of Environmental Services	Mobile
Pertussis, Culture (Whooping Cough)	See Bordetella pertussis							Microbiology Prattville
Phosphorus See: Hepatic Function Panel	<u>RFLT</u> Chemistry Analyte(s): Phosphorus <u>LIMS</u> CHM PHOSPH	Serum, 3 ml	Venipuncture - Collect in SST: Invert tube(s) 5 times. Allow tube to sit undisturbed and upright for 30 minutes. Centrifuge within 2 hours of collection. Use splash shield to open tube and remove serum immediately after centrifugation. Place in serum transport tube and properly label.	<ul style="list-style-type: none"> Shipment: Frozen cold packs at 2-8°C Delayed shipment: Refrigerate at 2-8°C <p>Biological Substance, Category B UN 3373</p>	Chemistry Analyzer	1-3	CHD & Publicly Funded HCP	Clinical Chemistry Prattville
Pinworm	<u>RFLT</u> Parasitology <u>LIMS</u> PINWORM	Pinworm kit (Swube™ paddle): Item #K307 available upon request.	Pinworm Kit - follow instruction sheet included with kit <ol style="list-style-type: none"> Specimens should be collected immediately upon retiring at night or prior to rising in the morning. Hold the paddle by the cap and remove it from the tube. Separate the buttocks and press the tacky surface of the paddle against several areas of the anus region. Replace the paddle in the tube. Return specimen(s) to healthcare provider for mailing. <p>Please do not put feces on paddle or in tube.</p>	<ul style="list-style-type: none"> Shipment: Ambient Delayed shipment: Refrigerate at 2-8°C <p>Biological Substance, Category B UN 3373</p>	Microscopy	1-3	All providers	Microbiology 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> (Malaria)	RFLT Parasitology Please specify suspected agent LIMS BLPARA	<u>Microscopy</u> <ul style="list-style-type: none"> Whole blood ; Blood smear - include thick and thin smears, 2 slides each. <ul style="list-style-type: none"> 1 pair stained 1 pair unstained <u>PCR</u> Whole blood	Optimum collection time is halfway between chills. <u>Microscopy</u> <ul style="list-style-type: none"> Venipuncture - EDTA tube: Immediately after collection invert tube 8-10 times. Capillary draw Citrated, oxalated, or heparinized blood may not adhere to slides & may interfere with staining. <u>PCR</u> <ul style="list-style-type: none"> Venipuncture - EDTA tube: Immediately after collection invert tube 8-10 times. 	<u>Blood Smear</u> <ul style="list-style-type: none"> Allow slides to air dry thoroughly before packaging. Storage and Shipment: Ambient <u>Whole Blood</u> <ul style="list-style-type: none"> Shipment: Frozen cold packs at 2-8°C Delayed shipment: Refrigerate at 2-8°C Biological Substance, Category B UN 3373	Microscopy, PCR	1-5	All providers	Microbiology Prattville
Potassium	See Basic Metabolic Panel - See Comprehensive Metabolic Panel - See Electrolyte Panel - See Renal Function Panel							Clinical Chemistry Prattville
Protozoa	See Intestinal Parasites							Microbiology Prattville
Q-Fever	See <i>Coxiella burnetti</i>							Microbiology Prattville
Rabies	RFLT Rabies requisition form LIMS RABIES	No live animals are accepted <u>Small animal</u> <ul style="list-style-type: none"> Less than 15 lbs. and 19 inches long Dead, whole animal <u>Medium animal</u> <ul style="list-style-type: none"> More than 15 lbs. and 19 inches long Decapitated with skull intact <u>Large animal</u> <ul style="list-style-type: none"> Bovine, equine, etc. Send to a veterinary lab for brain removal 	<ul style="list-style-type: none"> Do not club or shoot animal in the head. Specimens that are decomposed or infested with fleas or maggots will not be accepted. Specimens in formalin not accepted. Animals needing other tests should be sent to a veterinary diagnostic lab first. 	<ul style="list-style-type: none"> Shipment: Frozen cold packs or ice, double bagged and in a leakproof container. Delayed shipment: Refrigerate at 2-8°C. Freeze if shipment cannot occur within 4 days of collection. Label outside package “Rabies Specimen”	DFA	1-2	All providers & private citizens	Microbiology Prattville, 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
Renal Function Panel Glucose, Urea Nitrogen (BUN), Creatine, Sodium Potassium Chloride, Bicarbonate	<u>RFLT</u> Chemistry Panel Renal Function <u>LIMS</u> CHM REN PN	Serum, 3 ml	Venipuncture - Collect in SST: Invert tube(s) 5 times. Allow tube to sit undisturbed and upright for 30 minutes. Centrifuge within 2 hours of collection. Use splash shield to open tube and remove serum immediately after centrifugation. Place in serum transport tube and properly label.	<ul style="list-style-type: none"> Shipment: Frozen cold packs at 2-8°C Delayed shipment: Refrigerate at 2-8°C <p>Biological Substance, Category B UN 3373</p>	Chemistry Analyzer	1-3	CHD & Publicly Funded HCP	Clinical Chemistry Prattville
Respiratory Panel See BioFire Respiratory Panel Menu	<u>RFLT</u> Microbiology - PCR <u>LIMS</u> RESP_PNL Indicate approved outbreak number on requisition	Nasopharyngeal swab	<ul style="list-style-type: none"> Collect only using synthetic tip swabs (ex. Dacron, Nylon, Polyester) with non-wooden shaft. Immediately after collection, place swab directly in 2-3ml of viral transport media (VTM). Respiratory Kit, Item # K305 available upon request. 	<ul style="list-style-type: none"> Shipment: Frozen cold packs at 2-8°C Delayed shipment: Refrigerate at 2-8°C <p>Biological Substance, Category B UN 3373</p>	PCR	2-5	Central Office, CHDs	Microbiology Prattville
Ricinine	Call 334-290-6160	Urine, 5 ml	Urine collection guidance	<ul style="list-style-type: none"> Storage: Freeze ≤ -20°C Shipment: on Dry Ice <p>Biological Substance, Category B UN 3373</p>	LC/MS/MS	1-3	All providers	Clinical Chemistry Prattville
Ringworm	See Fungus Culture							Mycotics Prattville
Rickettsia sp. (R. typhi - Rickettsia, R. rickettsia - Rocky Mountain Spotted Fever)	<u>RFLT</u> Microbiology - Reference <u>LIMS</u> REFMICRO Please specify suspected agent	<ul style="list-style-type: none"> Whole blood; Serum - paired acute & convalescent, 1 ml (minimum, 3-5 preferred); Tissue - biopsy from rash or eschar; Swab of eschar 	<p>Acute specimen drawn within 14 days of onset. Convalescent specimen drawn 2-10 weeks after onset.</p> <ul style="list-style-type: none"> Whole blood: Venipuncture - Collect in EDTA tube: Immediately after collection invert tube 8-10 times. Serum: Venipuncture - Collect in SST. Remove serum immediately after centrifugation & place in serum transport tube. Must be centrifuged within 2 hours of collection. Tissue and swab of eschar: See CDC guidance. 	<p><u>Blood Specimens</u></p> <ul style="list-style-type: none"> Storage: Freeze acute serum at ≤ -20°C until convalescent specimen is collected. Shipment: Dry ice <p><u>Other Specimens</u> See CDC guidance</p> <p>Biological Substance, Category B UN 3373</p>	BCL will forward to CDC for testing	14	All Providers	Microbiology Prattville
Roundworm	See Intestinal Parasites							Microbiology 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 Prattville & Mobile
Rubella (German Measles)	RFLT Microbiology - Reference LIMS REFMICRO List rash onset date	<ul style="list-style-type: none"> Nasopharyngeal swab; Throat swab 	Specimens should be collected 8-21 days past onset of rash. List rash onset date.	<ul style="list-style-type: none"> Shipment: Frozen cold packs at 2-8°C Delayed shipment: Refrigerate at 2-8°C <p>Biological Substance, Category B UN 3373</p>	PCR Forwarded to WSLH	14	CHD only. Contact the Central Office Immunization Division (334) 206-5478	Microbiology Prattville
Rubeola (Red Measles)	See <i>Morbillivirus</i>							Microbiology Prattville
Salmonella	RFLT <i>Salmonella / Shigella</i> LIMS SAL-SHIG	<u>Pure Culture (Isolate)</u> Preferred <u>Clinical Specimens</u> Whole blood Stool (feces): See Enteric Fecal Screen	Venipuncture - Collect in EDTA tube: Immediately after collection, invert tube 8-10 times.	<u>Pure Culture (Isolate)</u> <ul style="list-style-type: none"> Shipment: Ambient Delayed Storage & Shipment: Refrigerate 2-8°C <u>Clinical Specimens</u> <ul style="list-style-type: none"> Shipment: Frozen cold packs at 2-8°C Delayed Storage & Shipment: Refrigerate 2-8°C <p>Biological Substance, Category B UN 3373</p>	Conventional methods	5-12	All providers	Microbiology Prattville
SARS-CoV-2	See Coronavirus							Microbiology Mycobacteriology, STD, Clinical Chemistry
Sarcoptes scabiei (Scabies)	RFLT Parasitology LIMS REFMICRO 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 Biological Substance, Category B UN 3373	Microscopy	1-3	All providers	Microbiology Prattville
Shellfish Shellstock (Fecal Coliform, <i>E. coli</i> , Aerobic Plate Count)	Test request/ 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"> Iced & held below 10°C, but not frozen; not submerged in cooler water. Must be received by laboratory within 24 hrs. of collection. 	FDA-APHA MPN Method	2-4	ADPH Bureau of Environmental Services	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
Shigatoxin	See <i>Escherichia coli</i>							Microbiology Prattville
Shigella	RFLT <i>Salmonella / Shigella</i>	<u>Pure Culture (Isolate)</u> Preferred	Venipuncture - Collect in EDTA tube: Immediately after collection, invert tube 8-10 times.	<u>Pure Culture (Isolate)</u> • Shipment: Ambient • Delayed Storage & Shipment: Refrigerate 2-8°C <u>Clinical Specimens</u> • Shipment: Frozen cold packs at 2-8°C • Delayed Storage & Shipment: Refrigerate 2-8°C Biological Substance, Category B UN 3373	Conventional methods	5-12	All providers	Microbiology Prattville
	LIMS SAL-SHIG	<u>Clinical Specimens</u> Whole blood Stool (feces): See Enteric Fecal Screen						
Smallpox	See <i>Orthopoxvirus</i>						All providers: Prior consultation with Central Office - ID&O before submission (334) 206-5971	Microbiology Prattville
Sodium	See Basic Metabolic Panel - See Comprehensive Metabolic Panel - See Electrolyte Panel - See Renal Function Panel							Clinical Chemistry Prattville
Strongyloides	See Intestinal Parasites							Microbiology Prattville
Streptococcus	See Aerobic/Anaerobic Bacterial ID							Microbiology Prattville
Sulfur Mustard metabolites	Call 334-290-6160	• Serum, 1-5 ml; • Urine, 1.5-5 ml	Venipuncture - Collect in SST: Remove serum immediately after centrifugation & place in serum transport tube. Urine collection guidance	• Storage: Freeze ≤ -20°C • Shipment: on Dry Ice Biological Substance, Category B UN 3373	LC/MS/MS	1-3	All providers	Clinical Chemistry Prattville
Syphilis Testing, (Syphilis Screen, RPR, TP-PA) An RPR will be performed on all reactive Syphilis screens. TPPA will be performed on all nonreactive RPR specimens	RFLT Syphilis LIMS SYPH_SCRN Please answer history of treatment question on requisition	Serum, 3-5 ml	Venipuncture - Collect in SST: Invert tube(s) 5 times. Allow tube to sit undisturbed and upright for 30 minutes. Centrifuge within 2 hours of collection. Use splash shield to open tube and remove serum immediately after centrifugation. Place in serum transport tube and properly label.	• Storage: 2-8°C • Shipment: Frozen cold packs at 2-8°C Specimens must be received by the lab within 5 days from date of collection. Biological Substance, Category B UN 3373	Multiplex Immunoassay, RPR, <i>T. pallidum</i> Particle Agglutination (TPPA)	1-7	CHD, Federally funded HCP, Private physicians	STD Prattville, 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
Tapeworm	See Intestinal Parasites							Microbiology Prattville
Tetramine	Call 334-290-6160	Urine, 5 ml	Urine collection guidance Freeze ASAP	<ul style="list-style-type: none"> Storage: Freeze ≤ -20°C Shipment: on Dry Ice <p>Biological Substance, Category B UN 3373</p>	GC/MS	1-2	All providers	Clinical Chemistry Prattville
Tetranitromethane (HNPA)	Call 334-290-6160	Urine, 5 ml	Urine collection guidance	<ul style="list-style-type: none"> Storage: Freeze ≤ -20°C Shipment: on Dry Ice <p>Biological Substance, Category B UN 3373</p>	LC/MS/MS	1-2	All providers	Clinical Chemistry Prattville
Thyroid Panel TSH, Total T4, Free T4, T-Uptake	<u>RFLT</u> Chemistry Profile Thyroid <u>LIMS</u> CHM_THYR_P	Serum, 3 ml	Venipuncture - Collect in SST: Invert tube(s) 5 times. Allow tube to sit undisturbed and upright for 30 minutes. Centrifuge within 2 hours of collection. Use splash shield to open tube and remove serum immediately after centrifugation. Place in serum transport tube and properly label.	<ul style="list-style-type: none"> Shipment: Frozen cold packs at 2-8°C Delayed shipment: Refrigerate at 2-8°C <p>Biological Substance, Category B UN 3373</p>	Chemistry Analyzer	1-3	CHD & Publicly Funded HCP	Clinical Chemistry Prattville
TIBC/UIBC (Total Iron Binding Capacity/ Unbound Iron Binding Capacity)	<u>RFLT</u> Chemistry Analyte(s): TIBC/UIBC <u>LIMS</u> CHM TIBC	Serum, 3 ml	Venipuncture - Collect in SST: Invert tube(s) 5 times. Allow tube to sit undisturbed and upright for 30 minutes. Centrifuge within 2 hours of collection. Use splash shield to open tube and remove serum immediately after centrifugation. Place in serum transport tube and properly label.	<ul style="list-style-type: none"> Shipment: Frozen cold packs at 2-8°C Delayed shipment: Refrigerate at 2-8°C <p>Biological Substance, Category B UN 3373</p>	Chemistry Analyzer	1-3	CHD & Publicly Funded HCP	Clinical Chemistry Prattville
Total Protein See: Hepatic Function Panel, Comprehensive Metabolic Panel	<u>RFLT</u> Chemistry Analyte(s): Total Protein <u>LIMS</u> CHM PRO TO	Serum, 3 ml	Venipuncture - Collect in SST: Invert tube(s) 5 times. Allow tube to sit undisturbed and upright for 30 minutes. Centrifuge within 2 hours of collection. Use splash shield to open tube and remove serum immediately after centrifugation. Place in serum transport tube and properly label.	<ul style="list-style-type: none"> Shipment: Frozen cold packs at 2-8°C Delayed shipment: Refrigerate at 2-8°C <p>Biological Substance, Category B UN 3373</p>	Chemistry Analyzer	1-3	CHD & Publicly Funded HCP	Clinical Chemistry Prattville
Toxic Elements Screen in Blood Hg, Cd, Pb	Call 334-290-6160	Whole blood, 3 ml	Venipuncture, EDTA tube: Immediately after collection, invert tube 8-10 times. Include empty collection tube from same lot.	<ul style="list-style-type: none"> Shipment: Frozen cold packs at 2-8°C DO NOT FREEZE <p>Biological Substance, Category B UN 3373</p>	ICP/MS	1-3	All providers	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
Toxic Elements Screen in urine. As, Be, Cd, Ba, Tl, Pb, U	Call 334-290-6160	Urine, 5 ml	Urine collection guidance Include empty collection cup from same lot.	Shipment: Frozen cold packs at 2-8°C Biological Substance, Category B UN 3373	ICP/MS	1-3	All providers	Clinical Chemistry Prattville
<i>Trichinella</i> (Trichinosis)	See Intestinal Parasites							Microbiology Prattville
<i>Trichuris</i>	See Intestinal Parasites							Microbiology Prattville
Triglycerides See: Lipid Panel	<u>RFLT</u> Chemistry Analyte(s): Triglycerides <u>LIMS</u> CHM TRIGLY	Serum, 3 ml	Venipuncture - Collect in SST: Invert tube(s) 5 times. Allow tube to sit undisturbed and upright for 30 minutes. Centrifuge within 2 hours of collection. Use splash shield to open tube and remove serum immediately after centrifugation. Place in serum transport tube and properly label. Patient should be fasting.	<ul style="list-style-type: none"> Shipment: Frozen cold packs at 2-8°C Delayed shipment: Refrigerate at 2-8°C Biological Substance, Category B UN 3373	Chemistry Analyzer	1-3	CHD & Publicly Funded HCP	Clinical Chemistry Prattville
Thyroid Stimulating Hormone (TSH) See: Thyroid Panel	<u>RFLT</u> Chemistry Analyte(s): Thyroid Stimulating Hormone <u>LIMS</u> CHM_TSH	Serum, 3 ml	Venipuncture - Collect in SST: Invert tube(s) 5 times. Allow tube to sit undisturbed and upright for 30 minutes. Centrifuge within 2 hours of collection. Use splash shield to open tube and remove serum immediately after centrifugation. Place in serum transport tube and properly label.	<ul style="list-style-type: none"> Shipment: Frozen cold packs at 2-8°C Delayed shipment: Refrigerate at 2-8°C Biological Substance, Category B UN 3373	Chemistry Analyzer	1-3	CHD & Publicly Funded HCP	Clinical Chemistry Prattville
Tuberculosis	See Mycobacteria Culture							Mycobacteriology
Tularemia	See <i>Francisella tularensis</i>							Microbiology Prattville
Typhoid	See <i>Salmonella</i>							Microbiology Prattville
Uric Acid	<u>RFLT</u> Chemistry Analyte(s): Uric Acid <u>LIMS</u> CHM URIC A	Serum, 3 ml	Venipuncture - Collect in SST: Invert tube(s) 5 times. Allow tube to sit undisturbed and upright for 30 minutes. Centrifuge within 2 hours of collection. Use splash shield to open tube and remove serum immediately after centrifugation. Place in serum transport tube and properly label.	<ul style="list-style-type: none"> Shipment: Frozen cold packs at 2-8°C Delayed shipment: Refrigerate at 2-8°C Biological Substance, Category B UN 3373	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
Urine, (Culture & Sensitivity)	<u>RFLT</u> Urine Culture <u>LIMS</u> URINE_CULT	Mid-stream, clean-catch urine, or catheterized specimen	Urine culture collection guidance Urine Culture Tubes, Item# U002 available upon request.	<ul style="list-style-type: none"> Shipment: Frozen cold packs at 2-25°C Specimens should be received by lab within 48 hrs. of collection Biological Substance, Category B UN 3373	Conventional methods, biochemical tests - MIC sensitivity	1-7	CHD - maternity programs only, federally funded HCP	Mobile
Varicella zoster virus (Chicken Pox)	<u>RFLT</u> Microbiology - Reference <u>LIMS</u> REFMICRO	Lesion Swab	<ul style="list-style-type: none"> Vigorously scrape at exposed base of lesion. Avoid contamination of the specimen with blood to prevent the possibility of false negative results. Samples should be placed in viral transport medium. 	<ul style="list-style-type: none"> Shipment: Frozen cold packs at 2-8°C Delayed Storage and Shipment: freeze at ≤ -70°C and ship on dry ice Biological Substance, Category B UN 3373	DFA & PCR Forwarded to WSLH	5-14	All providers	Microbiology Prattville
Vibrio sp.	<u>RFLT</u> Vibrio <u>LIMS</u> VIBRIOSIS	<u>Pure Culture (Isolate)</u> Preferred <u>Clinical Specimens</u> Stool (feces)	Stool collection guidance	<u>Pure Culture (Isolate)</u> After isolating for pure culture & 24 hrs. incubation, <ul style="list-style-type: none"> Shipment: Ambient Delayed Storage & Shipment: Refrigerate 2-8°C <u>Clinical Specimens</u> <ul style="list-style-type: none"> Shipment: Frozen cold packs at 2-8°C Delayed Storage & Shipment: Refrigerate 2-8°C Biological Substance, Category B UN 3373	Conventional methods, Slide agglutination	3-14	All providers	Microbiology Prattville
Volatile Organic Compounds (VOC) Chloroform, 1,2-DCE, Benzene, CCl4, Toluene, PCE, Ethylbenzene, M&P Xylene, Styrene, O-Xylene	Call 334-290-6160	Whole blood, 3 ml	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"> Shipment: Frozen cold packs at 2-8°C DO NOT FREEZE Biological Substance, Category B UN 3373	GC/MS	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
Water, Drinking (Total Coliform & <i>E. coli</i>)	Form CL-12 kit	Drinking water, 100 ml	<ul style="list-style-type: none"> Private Water Samples - Consultation with county health department environmental staff is encouraged for all private well samples. Public Water Samples - Coordination with ADEM is required <p>Sample bottles may be obtained from state lab (334) 290-3123 or local County Health Department.</p>	<ul style="list-style-type: none"> Water samples should be submitted to the lab the same day as collected. Must be received within 30 hrs. of collection. Submit samples Monday - Thursday Delayed Storage and Shipment: Refrigerate, 1-5°C (do not freeze) if sample cannot be submitted to the lab the same day as collected. 	SM9223B (Colilert - Prattville and Mobile labs) SM9221B SM9221F (Multiple Tube Fermentation - Prattville lab only)	<ul style="list-style-type: none"> Colilert Method 1-2 Multiple Tube Fermentation Method 2-3 	Public water samples must be submitted by certified collectors. Private individuals may submit water samples from their private wells only.	Sanitary Bacteriology Prattville & Mobile
Water, Environmental: Beach (<i>Enterococcus</i>)	Test request/ report form from Mobile lab	Surface water, 225 ml	<ul style="list-style-type: none"> Arrangements are made with lab prior to submission (251) 344-6049. Samples must be iced at collection point & submitted to lab within 6 hrs. of collection. 	<ul style="list-style-type: none"> Shipment: Place on ice as to not exceed 10°C in transit. Ensure samples is collected with a temperature control sample. Hand deliver samples on ice within 6 hrs. of collection 	EPA Method 1600 for <i>Enterococcus</i>	1-2	County & State Environmental lists	Mobile
Water, Fluoride	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.	Water samples should not be stored.	SM4500 F- Ion Selective Electrode Method	Call BCL/ Sanitary Bacteriology	Samples must be submitted through the ADPH Oral Health Division	Sanitary Bacteriology Prattville
Water, Phytoplankton Harmful Algal Bloom	Test request/ report form from Mobile lab	<ul style="list-style-type: none"> Water, 1 Liter; 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. 	<ul style="list-style-type: none"> Water collection: Preserve with acidified Lugol's solution. Live samples can be analyzed qualitatively, but not quantitatively. <p>Phytoplankton report, water collection jars, & preservative are available at the Mobile lab location.</p>	<ul style="list-style-type: none"> Notify lab of sample shipment: (251) 344-6049 Water samples should not be stored. Preserved samples should be transported as soon as possible. Live samples are wrapped in damp newspaper, but not iced. Shipment of live samples should be done promptly. 	Utermöhl Method with Microscopic examination	1-4	State, county, & municipal agencies or prearranged contract	Mobile
West Nile Virus, (Human Serology)	<u>RFLT</u> Arboviral Testing Please specify suspected agent <u>LIMS</u> WNV	Serum	<p>Collect in SST - Invert tube(s) 5 times. Allow tube to sit undisturbed and upright for 30 minutes. Centrifuge within 2 hours of collection.</p> <p>Preferred: 1 ml of acute sample (≤ 13 days) and 1 ml of convalescent (14-21 days)</p>	<ul style="list-style-type: none"> Shipment: Frozen cold packs at 2-8°C Delayed Storage and Shipment: freeze at ≤ -20°C and ship on dry ice <p>Biological Substance, Category B UN 3373</p>	ELISA Forward to CDC	5 - 10	All Providers	Microbiology Prattville
Whooping Cough	See <i>Bordetella pertussis</i>							Microbiology 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
Yeast (Culture)	See Fungus Culture							Mycotics Prattville
<i>Yersinia pestis</i>	<u>RFLT</u> Other test: <i>Yersinia</i> <u>LIMS</u> REFMICRO Please specify suspected agent	Call BCL Micro-Reference Bacteriology 334-290-6186 <u>Pure Culture (Isolate)</u> Preferred <u>Clinical Specimens</u> <ul style="list-style-type: none"> Whole blood; Lymph node aspirate; Bronchial wash; Transtacheal aspirate; NP swab 	<u>Pure Culture (Isolate)</u> Submit on tryptic soy agar, or other suitable slant. <u>Clinical Specimens</u> <ul style="list-style-type: none"> Venipuncture - Collect in EDTA tube: Immediately after collection invert tube 8-10 times. Lymph node and trans-trachial aspirates - Follow facility protocol. Bronchial wash and NP swab - Follow 	Send immediately but call prior to shipment <u>Pure Culture (Isolate)</u> <ul style="list-style-type: none"> Shipment: Ambient <u>Clinical Specimens</u> <ul style="list-style-type: none"> Shipment: Frozen cold packs at 2-8°C Infectious Substance, Category A UN 2814	Conventional methods, PCR	3-14	All providers	Microbiology Prattville
<i>Yersinia sp.</i> (Culture)	<u>RFLT</u> Microbiology - Reference <u>LIMS</u> REFMICRO Please specify suspected agent	<u>Pure Culture (Isolate)</u> Preferred <u>Clinical Specimens</u> <ul style="list-style-type: none"> Blood culture bottle; Whole blood; Stool (feces) 	<u>Pure Culture (Isolate)</u> Preferred: Submit on tryptic soy agar, or other suitable slant. <u>Clinical Specimens</u> <ul style="list-style-type: none"> Blood culture bottle: refer to manufacturer's procedures Blood: Venipuncture - Collect in EDTA tube: Immediately after collection invert tube 8-10 times. Stool collection guidance 	<u>Pure Culture (Isolate)</u> Storage and Shipment: Ambient <u>Clinical Specimens</u> <ul style="list-style-type: none"> Send immediately Shipment: Frozen cold packs at 2-8°C Biological Substance, Category B UN 3373	Conventional methods, Biochemical tests	3-10	All providers	Microbiology Prattville
Zika	See Arbovirus (Dengue, Chikungunya, Zika)							Microbiology Prattville









Acronym Reference

ADEM - Alabama Department of Environmental Management
 ADPH - Alabama Department of Public Health
 AFB - Acid Fast Bacteria
 APHA - American Public Health Association
 ASAP - As Soon As Possible
 BCL - Bureau of Clinical Laboratories - (334) 290-6130
 CDC - Centers for Disease Control and Prevention
 CHD - County Health Department
 CSF - Cerebrospinal Fluid
 CT - Chemical Terrorism
 DFA - Direct Fluorescent Antibody
 EDTA - Ethylenediaminetetraacetic Acid
 ELISA - Enzyme linked immunosorbent assay
 EID - Emerging Infectious Diseases

FDA - Food and Drug Administration
 g - Grams
 GC/MS - Gas Chromatography/Mass Spectrometry
 HCP - Health Care Provider
 HD - Health Department
 ICP/MS - Inductively coupled plasma mass spectrometry
 ID&O - Infectious Disease and Outbreaks - (334) 206-5971
 LC/MS/MS - Liquid Chromatography w/Tandem Mass Spectrometry
 LIMS - Laboratory Information Management System (LabOnline)
 MIC - Minimum Inhibitory Concentration
 mg - Milligram
 ml - Milliliter
 MPN - Most Probable Number
 NAAT - Nucleic Acid Amplification Test

NTM - Nontuberculous Mycobacteria
 PCR - Polymerase Chain Reaction
 PVA - Polyvinyl Alcohol
 RFLT - Requisition Form for Laboratory Testing
 RPR - Rapid Plasma Reagin
 SST - Serum Separator Tube
 STD - Sexually Transmitted Disease
 TAT - Turn Around Time
 TB - Tuberculosis
 Temp - Temperature
 PVA - Polyvinyl Alcohol
 RFLT - Requisition Form for Laboratory Testing
 WSLH - Wisconsin State Laboratory of Hygiene

Shipping Guidance[Infectious Substance, Category A](#)
UN 2814[Biological Substance, Category B](#)
UN 3373**Blood Tube Cap 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. Must be centrifuged to separate serum.
 Red	 Red	Glass - Silicone coated Plastic - Clot activator, Silicone coated	Serum, Whole clotted blood	Red Topped Tube Must be centrifuged to separate serum. Serum must be drawn off, not poured after centrifugation.
 Lavender	 Lavender	Glass - Liquid K ₃ EDTA Plastic - Spray-coated K ₂ EDTA	Plasma, Whole Blood,	EDTA Tube Must be centrifuged to separate plasma.
 Gray	 Gray	Potassium oxalate/ sodium fluoride Sodium fluoride/Na ₂ EDTA Sodium fluoride (serum tube)	Whole Blood	Potassium oxalate and sodium fluoride tube