

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

Name	Division	Offered To	Specimen/ Volume	Requisition/ Collection Kit	Collection Procedure	Storage	Special Instructions	Method	Turn- Around- Time	Shipping/ Handling	Lab
Clinical (Clin.) Services - Chemistry (Chem.)											
Alanine Amino- Transferase (ALT, SGPT)	Chem.- Clin.	CHD & Publicly Funded HCP	Serum, 3 ml	HGR, or RFLT (ADPH Website)	Venipuncture*	Refrigerate at 2-8°C if not shipped immediately	None	Chem. Analyzer	1-3 working days	Biological Substance, Category B	C
Albumin	Chem.- Clin.	CHD & Publicly Funded HCP	Serum, 3 ml	HGR, or RFLT (ADPH Website)	Venipuncture*	Refrigerate at 2-8°C if not shipped immediately	None	Chem. Analyzer	1-3 working days	Biological Substance, Category B	C
Alkaline Phosphatase, Serum	Chem.- Clin.	CHD & Publicly Funded HCP	Serum, 3 ml	HGR, or RFLT (ADPH Website)	Venipuncture*	Refrigerate at 2-8°C if not shipped immediately	None	Chem. Analyzer	1-3 working days	Biological Substance, Category B	C
Amylase	Chem.- Clin.	CHD & Publicly Funded HCP	Serum, 3 ml	HGR, or RFLT (ADPH Website)	Venipuncture*	Refrigerate at 2-8°C if not shipped immediately	None	Chem. Analyzer	1-3 working days	Biological Substance, Category B	C
Aspartate Aminotrans- ferase (AST, SGOT)	Chem.- Clin.	CHD & Publicly Funded HCP	Serum, 3 ml	HGR, or RFLT (ADPH Website)	Venipuncture*	Refrigerate at 2-8°C if not shipped immediately	None	Chem. Analyzer	1-3 working days	Biological Substance, Category B	C
Basic Metabolic Panel	Chem.- Clin.	CHD & Publicly Funded HCP	Serum, 3 ml	HGR, or RFLT (ADPH Website)	Venipuncture *	Refrigerate at 2-8°C if not shipped immediately	None	Chem. Analyzer	1-3 working days	Biological Substance, Category B	C
Bicarbonate (CO ₂)	Chem.- Clin.	CHD & Publicly Funded HCP	Serum, 3 ml	HGR, or RFLT (ADPH Website)	Venipuncture*	Refrigerate at 2-8°C if not shipped immediately	None	Chem. Analyzer	1-3 working days	Biological Substance, Category B	C
Bilirubin, Total Or Direct	Chem.- Clin.	CHD & Publicly Funded HCP	Serum, 3 ml	HGR, or RFLT (ADPH Website)	Venipuncture*	Refrigerate at 2-8°C if not shipped immediately	Protect specimen from light	Chem. Analyzer	1-3 working days	Biological Substance, Category B	C
Blood Urea Nitrogen (BUN)	Chem.- Clin.	CHD & Publicly Funded HCP	Serum, 3 ml	HGR, or RFLT (ADPH Website)	Venipuncture*	Refrigerate at 2-8°C if not shipped immediately	None	Chem. Analyzer	1-3 working days	Biological Substance, Category B	C
Calcium	Chem.- Clin.	CHD & Publicly Funded HCP	Serum, 3 ml	HGR, or RFLT (ADPH Website)	Venipuncture*	Refrigerate at 2-8°C if not shipped immediately	None	Chem. Analyzer	1-3 working days	Biological Substance, Category B	C
Chemistry Profiles	Chem.- Clin.	CHD & Publicly Funded HCP	Serum, 3 ml	HGR, or RFLT (ADPH Website)	Venipuncture*	Refrigerate at 2-8°C if not shipped immediately	Profiles meet HD needs. Refer to requisition for definitions.	Chem. Analyzer	1-3 working days	Biological Substance, Category B	C

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Chloride	Chem.- Clin.	CHD & Publicly Funded HCP	Serum, 3 ml	HGR, or RFLT (ADPH Website)	Venipuncture*	Refrigerate at 2-8°C if not shipped immediately	None	Chem. Analyzer	1-3 working days	Biological Substance, Category B	C
Cholesterol	Chem.- Clin.	CHD & Publicly Funded HCP	Serum, 3 ml	HGR, or RFLT (ADPH Website)	Venipuncture*	Refrigerate at 2-8°C if not shipped immediately	None	Chem. Analyzer	1-3 working days	Biological Substance, Category B	C
Complete Blood Count (CBC), Without Differential	Chem.- Clin..	CHD & Publicly Funded HCP	EDTA Whole Blood (Purple top tube), 5 ml	HGR, or RFLT (ADPH Website)	Venipuncture EDTA	Do NOT store – send immediately	Immediately after collection, invert purple-top tube 8-10 times.	Hema. Analyzer	1-3 working days	Biological Substance, Category B	C
Comprehensive Metabolic	Chem.- Clin.	CHD & Publicly Funded HCP	Serum, 3 ml	HGR, or RFLT (ADPH Website)	Venipuncture*	Refrigerate at 2-8°C if not shipped immediately	None	Chem. Analyzer	1-3 working days	Biological Substance, Category B	C
Creatinine	Chem.- Clin.	CHD & Publicly Funded HCP	Serum, 3 ml	HGR, or RFLT (ADPH Website)	Venipuncture*	Refrigerate at >8° if not shipped immediately	None	Chem. Analyzer	1-3 working days	Biological Substance, Category B	C
Diabetes: Glucose	Chem.- Clin.	See Glucose									C
Electrolytes (Na, K, Cl, CO ₂)	Chem.- Clin.	CHD & Publicly Funded HCP	Serum, 3 ml	HGR, or RFLT (ADPH Website)	Venipuncture*	Refrigerate at 2-8°C if not shipped immediately	None	Chem. Analyzer	1-3 working days	Biological Substance, Category B	C
Ferritin	Chem.- Clin.	CHD & Publicly Funded HCP	Serum, 3 ml	HGR, or RFLT (ADPH Website)	Venipuncture*	Refrigerate at 2-8°C if not shipped immediately	None	Chem. Analyzer	1-3 working days	Biological Substance, Category B	C
Gamma Glutamyl Transpeptidase (GGTP)	Chem.- Clin.	CHD & Publicly Funded HCP	Serum, 3 ml	HGR, or RFLT (ADPH Website)	Venipuncture*	Refrigerate at 2-8°C if not shipped immediately	None	Chem. Analyzer	1-3 working days	Biological Substance, Category B	C
Genotype, HIV	Chem.- Clin.	HIV/Viral Load Genotype Grant approved participants & CHD	Plasma, 3-5 ml	HGR, or RFLT (ADPH Website)	Venipuncture - lavender top tube. Collect, centrifuge & separate within 2 hrs of collection according to manufacturer or remove plasma right after centrifugation, place in transport tube & label tube "Plasma". Unlabeled specimens will be reported "unsatisfactory."	Separated plasma should be stored at -70°C.	Specimens should be collected Mon- Thurs. Specimens collected on Fri. must be received by lab Fri before noon. Ship the plasma at 2-8°C for delivery within 24 hrs, or ship the tubes with	ViroSeq PCR	7-14 working days	Biological Substance Category B	C

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							the plasma at -70°C or less on dry ice. Specimens must have a viral load of ≥ 2000 copies/ml.				
Glucose	Chem.- Clin.	CHD & Publicly Funded HCP	Serum, 3 ml	HGR, or RFLT (ADPH Website)	Venipuncture*	Refrigerate at 2-8°C if not shipped immediately	None	Chem. Analyzer	1-3 working days	Biological Substance, Category B	C
Hematocrit, Automated	Chem.- Clin.	CHD & Publicly Funded HCP	See Complete Blood Count								C
Hemoglobin, Automated	Chem. Clin.	CHD & Publicly Funded HCP	See Complete Blood Count								C
Hepatic Function Panel	Chem.- Clin.	CHD & Publicly Funded HCP	Serum, 3 ml	HGR, or RFLT (ADPH Website)	Venipuncture*	Refrigerate at 2-8°C if not shipped immediately	None	Chem. Analyzer	1-3 working days	Biological Substance, Category B	C
High-Density Lipoprotein (HDL) Cholesterol	Chem.- Clin.	CHD & Publicly Funded HCP	Serum, 3 ml	HGR, or RFLT (ADPH Website)	Venipuncture*	Refrigerate at 2-8°C if not shipped immediately	None	Chem. Analyzer	1-3 working days	Biological Substance, Category B	C
Iron	Chem.- Clin.	CHD & Publicly Funded HCP	Serum, 3 ml	HGR, or RFLT (ADPH Website)	Venipuncture*	Refrigerate at 2-8°C if not shipped immediately	Patient should be fasting.	Chem. Analyzer	1-3 working days	Biological Substance, Category B	C
Lactate Dehydrogenase (LDH)	Chem.- Clin.	CHD & Publicly Funded HCP	Serum, 3 ml	HGR, or RFLT (ADPH Website)	Venipuncture*	Refrigerate at 2-8°C if not shipped immediately	None	Chem. Analyzer	1-3 working days	Biological Substance, Category B	C
Lead, Blood	Chem. Lead	All providers	EDTA whole blood, 150 μ l	HGR, or RFLT (ADPH Website)	Venipuncture or capillary draw (fingerstick for children > 1 yr, or heelstick for infants < 1 yr)	Refrigerate at 2-8°C if not shipped immediately	If capillary, clean site thoroughly. Values outside normal range will be flagged (*) on the report. Panic values (≥ 45 μ g/dl) will be telephoned.	Atomic Absorp- tion	1-3 working days	Biological Substance, Category B	C
Lipid Panel	Chem.- Clin.	CHD & Publicly Funded HCP	Serum, 3 ml	HGR, or RFLT (ADPH Website)	Venipuncture*	Refrigerate at 2-8°C if not shipped immediately	Patient should be fasting.	Chem. Analyzer	1-3 working days	Biological Substance, Category B	C

Name	Division	Offered To	Specimen/ Volume	Requisition/ Collection Kit	Collection Procedure	Storage	Special Instructions	Method	Turn- Around- Time	Shipping/ Handling	Lab
Low-Density Lipoprotein (LDL) Cholesterol	Chem. Clin.	CHD & Publicly Funded HCP	Serum, 3 ml	HGR, or RFLT (ADPH Website)	Venipuncture*	Refrigerate at 2-8°C if not shipped immediately	Values highlighted**	Chem. Analyzer	1-3 working days	Biological Substance, Category B	C
Lymphocyte Subset Enumeration (CD4 /CD8–Lymphocyte Count)	Chem.-Clin.	CHD & Publicly Funded HCP	EDTA whole blood, 5 ml	HGR, or RFLT (ADPH Website)	Venipuncture, purple-top tube Immediately after collection, invert tube 8-10 times.	Room temperature. DO NOT REFRIGERATE. Ship/mail immediately	Specimens should be collected Mon-Thurs. If collected Fri, they must be received before noon Fri. Do not collect the day before a state holiday. Collect late in the day but in time to be shipped by courier the same day as collected.	Flow Cytometry	1–3 working days	Biological Substance, Category B for arrival at the lab within 24 hrs of collection	C
Phosphorus	Chem.-Clin.	CHD & Publicly Funded HCP	Serum, 3 ml	HGR, or RFLT (ADPH Website)	Venipuncture*	Refrigerate at 2-8°C if not shipped immediately	None	Chem. Analyzer	1–3 working days	Biological Substance, Category B	C
Potassium	Chem.-Clin.	CHD & Publicly Funded HCP	Serum, 3 ml	HGR, or RFLT (ADPH Website)	Venipuncture*	Refrigerate at 2-8°C if not shipped immediately	None	Chem. Analyzer	1–3 working days	Biological Substance, Category B	C
Renal Function Panel	Chem.-Clin.	CHD & Publicly Funded HCP	Serum, 3 m.	HGR, or RFLT (ADPH Website)	Venipuncture*	Refrigerate at 2-8°C if not shipped immediately	None	Chem. Analyzer	1–3 working days	Biological Substance, Category B	C
Sodium	Chem.-Clin.	CHD & Publicly Funded HCP	Serum, 3 ml	HGR, or RFLT (ADPH Website)	Venipuncture*	Refrigerate at 2-8°C if not shipped immediately	Values highlighted**	Chem. Analyzer	1–3 working days	Biological Substance, Category B	C
T4/ TSH, Adult	Chem.-Clin.	CHD & Publicly Funded HCP	See Thyroid Profile for information								C
Thyroid Profile	Chem.-Clin.	CHD & Publicly Funded HCP	Serum, 3 ml	HGR, or RFLT (ADPH Website)	Venipuncture*	Refrigerate at 2-8°C if not shipped immediately	None	Chem. Analyzer	1–3 working days	Biological Substance, Category B	C
Total Iron Binding Capacity/ Unbound Iron Binding	Chem.-Clin.	CHD & Publicly Funded HCP	Serum, 3 ml	HGR, or RFLT (ADPH Website)	Venipuncture*	Refrigerate at 2-8°C if not shipped immediately	None	Chem. Analyzer	1-3 working days	Biological Substance, Category B	C

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Capacity (TIBC/UIBC)											
Total Protein	Chem.- Clin.	CHD & Publicly Funded HCP	Serum, 3 ml	HGR, or RFLT (ADPH Website)	Venipuncture*	Refrigerate at 2-8°C if not shipped immediately	None	Chem. Analyzer	1-3 working days	Biological Substance, Category B	C
Triglycerides	Chem.- Clin.	CHD & Publicly Funded HCP	Serum, 3 ml	HGR, or RFLT (ADPH Website)	Venipuncture*	Refrigerate at 2-8°C if not shipped immediately	Patient should be fasting.	Chem. Analyzer	1-3 working days	Biological Substance, Category B	C
Uric Acid	Chem.- Clin.	CHD & Publicly Funded HCP	Serum, 3 ml	HGR, or RFLT (ADPH Website)	Venipuncture*	Refrigerate at 2-8°C if not shipped immediately		Chem. Analyzer	1-3 working days	Biological Substance, Category B	C
Viral Load, HIV	Chem.- Clin.	HIV/Viral Load Grant approved participants & CHD	Plasma, 3-5 ml	Venipuncture, lavender top tube., HGR, or RFLT (ADPH Website)	Remove plasma immediately after centrifugation & place in transport tube. Label transport tube "PLASMA." Specimens not labeled "PLASMA" will not be tested but reported "Unsatisfactory."	Plasma should be frozen or refrigerated at 2-8°C until shipped. Refrigerated specimens are acceptable for 5 days. Plasma samples are stable for 1 day at room temp.	Specimens collected in PPT tubes have not been validated for this procedure & will not be accepted.	Roche PCR	5-10 working days	Biological Substance, Category B in approved cold pack shipping container with sufficient refrigeration	C

Microbiology (Micro)

Aerobic & Anaerobic Bacteria ID	Micro- Conven- tional	All providers	Call BCL Micro- Reference Bacteriology	HGR, or RFLT (ADPH Website)	Blood - Venipuncture procedure CSF (see physician) Urine – Urine collection procedure Wounds - Sterile swab	After isolating for pure culture & 24 hrs incubation, ship immediately. If unable to ship, refrigerate at 2-8°C.	None	Conven- tional tube media	7-14 days	Biological Substance Category B or Infectious Substance Category A	C
Amoebae	Micro- Conven- tional	All providers	See Intestinal Parasite Procedures	Intestinal Parasite (IP) Kit F308 HGR, or RFLT (ADPH Website)	See Stool Collection Procedure/Instructions on back of CL-397	Room temp; refrigerate if a delay in shipping	Send both stool collection vials (formalin & PVA)	Formalin/ ethyl acetate concentra- tion, PVA & acid fast	3-5 working days	Biological Substance, Category B	C
Bacillus anthracis	Micro- Conven- tional and molecu- lar	All providers	Call BCL Micro- Reference Bacteriology	Form CL 421, HGR, or RFLT (ADPH Website)	Blood Culture Collection Sputum - Sputum Collection Procedure	Send immediately	Call prior to shipment	Conven- tional tube media and PCR	1-3 days	DANGER- OUS GOODS 6.2 Infectious Substance Category A	C
Arthropods	Micro- Conven- tional	All providers	Call BCL Micro-	IP Kit CL-397	Place intact arthropod in vial containing	Send immediately	None	Micro- scopic	3-5 days	Ship at room temp	C

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	tional		Parasitology	Formalin only, HGR, or RFLT (ADPH Website)	formalin or alcohol			exam			
<i>Ascaris</i>	Micro- Conven- tional	All providers	See Intestinal Parasite Procedures	Intestinal Parasite Kit F308 HGR, or RFLT (ADPH Website)	See Stool Collection Procedure/Instructions on back of CL-397	Room temp; refrigerate if a delay in shipping	Send both stool collection vials (formalin & PVA)	Formalin/ ethyl acetate concentra- tion, PVA & acid fast	3-5 working days	Biological Substance, Category B	C
Bioterrorism Sample	Micro- Molecu- lar	FBI consultation required prior to submission									C
<i>Bordetella pertussis</i> , - Culture & PCR	Micro- Conven- tional & Molecu- lar	All providers	Naso- pharyngeal (NP) aspirate/ wash, 1ml; NP swab	Jones- Kendrick (JK) media ReganLowe Media Form BCL- 421 (culture) Form BCL- 408 (PCR) HGR, or RFLT (ADPH Website)	Inoculate JK plate using NP swab, & streak for isolation. Incubate plate for 48 hrs in moist environment at 35°C. See NP Aspirate & Swab Collection Instructions ReganLowe Media – Push swab into media	JK plate - incubate 48 hrs prior to shipping. Refrigerate aspirates & swab at 2-8°C. If unable to ship within 24 hrs, swab or aspirate must remain under refrigeration during storage & shipment.	Collection of specimen must adhere to instructions for proper specimen. Call Microbiology Division for collection instructions.	Culture- Conven- tional tube media PCR	Culture: 5-10 days PCR: 2-5 working days;	Overnight courier Mon – Thurs as a Biological Substance, Category B. Specimens collected on Fri should be stored as indicated & shipped next business day. Cultures should be transported to arrive Mon -Thurs.	C
Botulism (Culture; Food Poisoning Investigation)	Micro- Conven- tional	All providers: requires prior consultation with Central Office; Epidemi- ology before submission	Call the Central Office; Epidemiology Division	HGR, or RFLT (ADPH Website)	Collect specimen in original container if possible. Use sterile techniques when collecting food specimen. Place specimen in sterile container & seal so it does not leak. Place container in secondary leak-proof container.	Ship immediately (refrigerate until shipped)	Call prior to shipment	Conven- tional bio- chemicals	7-14 days	Ship on cold packs. Ship food separately from clinical samples.	C
Botulism (Toxicity)	Micro- Molecu-	All providers:	Call BCL, Micro-Emerging	HGR, or RFLT	Call Microbiology for specific collection.	Refrigerate until shipped	Call Lab in advance of	Mouse bioassay ,	1-3 days	Ship on cold packs. Ship	C

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	lar	requires prior consultation with Central Office; Epidemiology before submission	Infectious Diseases	(ADPH Website)			shipment	PCR, and ELISA		food separately from clinical samples. Package & ship as an Infectious Substance, Category B	
<i>Brucella</i> (Culture)	Micro-Conventional & Molecular	All providers	Call BCL Micro-Reference Bacteriology Whole blood or serum	HGR, or RFLT (ADPH Website)	Inoculate blood culture bottle (aerobic) with 10-20 ml of blood. Incubate at 35°C for up to 21 days before reporting negative. Culture isolates: Submit on chocolate agar slant tryptic soy agar or other suitable slant.	Ship cultures at room temp as soon as possible	Ship immediately and call prior to shipment	Conventional tube media ID	7 -10 days PCR: 2-5 working days	DANGEROUS GOODS 6.2 Infectious Substance Category A	C
<i>Campylobacter</i> (Culture; Food Poisoning Investigation)	Micro-Conventional	All providers; Food investigation by Central Office Epidemiology	Pure culture (Rectal swabs placed in Cary-Blair transport media may be accepted for epidemiologic purposes. Call the BCL, Microbiology Division Bacteriology Section	HGR, or RFLT (ADPH Website)	Pure cultures should be plated & grown on appropriate media; rectal swabs must be placed in Cary-Blair media	Refrigerate at 2-8°C until shipped	Rectal swabs are accepted for epidemiological purposes only. Call Microbiology for assistance.	Conventional tube media ID	5-10 working days	Biological Substance, Category B	C
Chancroid: <i>Haemophilus ducreyi</i>	Micro-Conventional	All HCP for pure isolates only. CHD for clinical specimens.	Call BCL Micro- Bacteriology	HGR, or RFLT (ADPH Website) GC + FBS media, CO ₂ bag	Use cotton swab or calcium alginate swab to collect exudates from the ulcer after removal of superficial debris & scabs. Directly plate a Chancroid plate (GC+FBS) with the collection swab by rolling the swab across 1 portion of the plate, then streak the inoculum for isolation with a sterile loop or swab.	Place inoculated plate into a CO ₂ bag; incubate at 31° - 33° C for 48 hrs before shipping.	None	Conventional tube media ID	9-10 days	Biological substance Category B	C

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<i>Clostridium botulinum</i>	Micro- Conven- tional	See Botulism									C
Coronavirus (MERS-CoV)	Micro- Molecu- lar	All providers: requires prior consultation with Central Office; Epidemiology before submission	Nasopharyngeal swab, sputum, lower respiratory aspirate, serum	RFLT (ADPH Website)	Sputum & aspirates collected in a sterile tube. Swabs should be placed in viral transport media.	Refrigerate at 2-8°C for up to 72 hrs, then freeze at -20°C. Ship on cold packs or dry ice.	Do not use calcium alginate swabs.	PCR	PCR: 2-5 working days	Biological Substance, Category B	C
<i>Cryptosporidium</i>	Micro- Conven- tional	All providers	Stool (feces), 1 teaspoonful	Intestinal Parasite Kit CL-397, HGR, or RFLT (ADPH Website)	Stool Collection Procedure - Home	Do not store; send immediately	Review stool collection instructions & diagram with patient. Send stool collected in formalin vial	Kinyoun acid fast stain	3 -5 working days	Biological Substance, Category B	C
Dengue virus	Micro- Molecu- lar	All providers	Serum or plasma	RFLT (ADPH Website)	Collect whole blood in tiger-top tube. Separate serum or plasma.	Frozen at -20°C & shipped on dry ice.	None	PCR	PCR: 2-5 working days	Biological Substance, Category B	C
Diphtheria (Culture)	Micro- Conven- tional	All providers	Pure culture, swab (throat, nasopharynx or cutaneous lesion)	HGR, or RFLT (ADPH Website)	Throat Swab Collection Procedure	Room temp	If using transport tubes with moisture ampoules, ensure swabs are immersed.	Conventional tube media ID. We forward to CDC for toxigenicity testing.	3-12 working days	<u>Pure culture</u> Biological Substance, Category B <u>Swabs</u> Category B	C
Ebola virus	Micro- Molecu- lar	All providers: requires prior consultation with Central Office; Epidemiology before submission	2-4 ml whole blood collected in purple top tube with EDTA.	RFLT (ADPH Website)	Call BCL, Micro-Emerging Infectious Diseases	Ship immediately (refrigerate until shipped)	Call prior to shipment	PCR	1-3 days	DANGEROUS GOODS 6.2 Infectious Substance Category A	C
<i>Entamoeba histolytica</i>	Micro- Conven- tional	See Intestinal Parasites									C

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Enteric, Culture (<i>Salmonella</i> , <i>Shigella</i> , <i>Escherichia</i> . <i>coli</i> 0157:H7, only; also see individual analytes)	Micro- Conven- tional	All providers	Pure culture; Stool (feces), 1 teaspoonful; Blood (10 ml) Urine (10 ml)	HGR, or RFLT (ADPH Website) – 425 Kit	Stool Collection Procedure - Home Blood - Venipuncture Procedure Urine – Urine Collection Procedure	Do not store; send immediately	Review Specimen Collection instructions & diagram with patient	Conven- tional tube media ID	5-7 working days	<i>E. coli</i> 0157:H7 or suspected toxigenic strains (pure culture); DANGER- OUS GOODS 6.2, Infectious substance Category A. All others species - Biological substance Category B	C
<i>Escherichia coli</i> (Confirmation)	Micro- Conven- tional	All providers	Pure culture isolates	HGR, or RFLT (ADPH Website)	Blood Culture Collection Stool Collection Procedure Urine – Urine Collection Procedure	After isolating pure culture & 24 hr incubation, ship immediately. If unable to ship immediately, refrigerate at 2-8°C.	None	Conven- tional tube media ID	7-14 working days	Toxigenic strains - DANGER- OUS GOODS, 6.2, Infectious Substance Category A. All others ship as Biological Substance, Category B	C
<i>Escherichia coli</i> , 0157:H7 Serotyping	Micro- Conven- tional	All providers	Pure culture, stool or stool plated on appropriate media (i.e., Sorbitol MacConkey agar plate)	CL-425 kit for feces specimen, , HGR, RFLT (ADPH Website) for plated media	Stool Collection Procedure - Home	Stools should be refrigerated at 2–8°C.	Specimen must be collected within first 5 days of illness. Review Stool Collection Procedure with patient.	Slide & tube agglutina- tion	7–14 working days	DANGER- OUS GOODS 6.2, Infectious Substance Category A (pure culture, & stool culture broths); Biological Substance, Category B (stool)	C
Food Poisoning	Micro- Conven- tional	Central Office: Epidemi- ology	Call Central Office: Epidemiology	Call Central Office: Epidemi- ology	Collect samples in a sterile container	Refrigerate at 2-8°C	None	Conven- tional tube media ID	5-14 days	Ship on cold packs as soon as possible	C
Food (Raw Meats)	Micro- Conven- tional	Alabama Dept. of Agriculture & Industries	25g ± 1.0g portion of raw processed meat	Provided by Dept. of Agriculture	Refer to FSIS.usda.gov (USDA Food, Safety & Inspection Service) directive for collection	Keep refrigerated	None	Conven- tional tube media ID	5-7 days	Ship immediately on cold packs	C

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Gastrointestinal Panel	Micro-EID	Central Office: Epidemiology	Stool (feces), 1 teaspoonful in Cary Blair	HGR or RFLT (ADPH Website) – 425 Kit	Stool Collection Procedure - Home	Stools should be refrigerated at 2–8°C.	Indicate outbreak number on requisition	Film Array	2-5 working days	Ship on cold packs as Biological substance Category B	C
Giardiasis (<i>Giardia</i>)	Micro-Conventional	See Intestinal Parasites									C
Glanders Disease (<i>Burkholderia mallei</i>)	Micro-Conventional & Molecular	All providers	Call BCL Micro-Reference Bacteriology	Form CL-421, HGR, or RFLT (ADPH Website)	Blood Collection Sputum - Sputum Collection Procedure Urine – Urine Collection Procedure Skin lesions	After isolating suspected organism, call BCL-Microbiology & ship ASAP	Call lab prior to shipment	Conventional tube media ID & PCR	5-7 days	DANGEROUS GOODS 6.2, Infectious Substance Category A	C
Gonorrhea (GC), Culture, Confirmation	Micro-Conventional	All providers	Pure culture	HGR, or RFLT (ADPH Website)	Blood collection CSF (see physician) Genital discharge	After isolating for pure culture & 24 hrs incubation, ship immediately	None	Biochemical tests (conventional tube media ID)	4–7 working days	Biological Substance, Category B	C
<i>Haemophilus</i> , Culture & Serotyping	Micro-EID and Molecular	All providers	Pure culture	Form CL-421, HGR, or RFLT (ADPH Website)	Blood Collection CSF (see physician) Bronchoalveolar lavage Conjunctival swab	After isolating for pure culture & 24 hrs incubation, ship immediately. If unable to ship, refrigerate at 2–8°C.	None	PCR	4–6 working days	Biological Substance, Category B	C
<i>Haemophilus ducreyi</i>	Micro-Conventional	See Chancroid									C
Hookworm	Micro-Conventional	See Intestinal Parasites									C
Influenza, Bacterial	Micro-Conventional	See <i>Haemophilus</i> culture									C
Influenza, Viral (PCR)	Micro-Molecular	All providers	Upper and Lower Respiratory Specimens i.e. nasal swabs NO calcium alginate swabs	Flu kit & PCR Form HGR, or RFLT (ADPH Website) Email FluTestKit@adph.state.al.us	See www.adph.org/bcl , Seasonal Influenza for detailed instructions (Guidance for Laboratory Testing for Influenza Viruses)	Refrigerate at 2–8°C	If Avian Influenza suspected, contact Central Office-Epidemiology or the Central State Health Lab for instructions.	PCR	2 -5 working days	Ship on cold packs ASAP except on Fridays and holidays See www.adph.org/bcl , Seasonal Influenza for	C

Name	Division	Offered To	Specimen/ Volume	Requisition/ Collection Kit	Collection Procedure	Storage	Special Instructions	Method	Turn- Around- Time	Shipping/ Handling	Lab
										detailed instructions.	
Intestinal Parasites	Micro-Conventional	All providers	Stool (feces), 1 teaspoonful, or adult worm	IP Kit F308 HGR, or RFLT (ADPH Website)	Stool Collection Procedure – Home; Place adult worm in bottle containing formalin	Do not store, send immediately	Review Specimen Collection instructions & diagram with patient. Over 1 week, collect 3 specimens. Send both vials.	Formalin/ethyl acetate concentration, PVA & acid fast	3–5 working days	Biological Substance, Category B	C
Legionnaires, Antibody	Micro-Conventional	All providers	Paired sera, acute & convalescent. 2 ml each	HGR, or RFLT (ADPH Website)	Venipuncture, red-top tube, remove serum	Freeze acute serum until convalescent specimen is collected.	Acute specimen drawn within 7 days of onset & convalescent specimen drawn 3-6 weeks after onset. Submit both specimens simultaneously.	Forward to CDC for testing	2-3 weeks	Biological Substance, Category B	C
Legionnaires, Culture	Micro-Conventional	All providers	Pure culture submitted on Buffered Charcoal Yeast Extract with Cystine agar or clinical specimens (i.e., pleural fluid, trans-tracheal aspirates, bronchial washings, sputum, or lung tissue).	HGR, or RFLT (ADPH Website)	Sputum - Sputum Collection Procedure Bronchoalveolar lavage	Specimens should be refrigerated at 2–8°C	Certain types of specimens may be accepted only for examination at the CDC (i.e. paraffin embedded tissue.) No formalized specimens are accepted. Call BCL Micro-Bacteriology for assistance.	Conventional tube media ID; DFA.	10–16 working days	Biological Substance, Category B	C
Leptospirosis, Antibody	Micro-Conventional	Call BCL Micro-Bacteriology	Call BCL Micro-Bacteriology	Call BCL Micro-Bacteriology	Call BCL Micro-Bacteriology	Call BCL Micro-Bacteriology	Call BCL Micro-Bacteriology	Forward to CDC for testing	Call BCL Micro-Bacteriology	Biological Substance, Category B	C
Listeriosis, (<i>Listeria</i>) Culture	Micro-Conventional	All providers; (<i>Listeria</i> culturing offered to CHD & HD environmentalists)	Pure culture	HGR, or RFLT (ADPH Website)	Blood - Venipuncture procedure CSF (see physician) Stool - Process ASAP or refrigerate up to 48 hrs	After isolating for pure culture & 24 hrs incubation, ship immediately. If unable to ship, refrigerate at 2–8°C.	None	Conventional tube media ID	5–7 working days	Biological Substance, Category B	C

Name	Division	Offered To	Specimen/ Volume	Requisition/ Collection Kit	Collection Procedure	Storage	Special Instructions	Method	Turn- Around- Time	Shipping/ Handling	Lab
Lyme Disease	Micro- Mole- cular	All providers	Serum		Collect blood in tiger- top tube. Separate serum.	Refrigerate at 2-8°C for up to 72 hrs, then freeze at -20°C. Ship on cold packs or dry ice.	None	ELISA	2-5 working days	Biological Substance, Category B	C
Malaria	Micro- Conven- tional & Mole- cular	All providers	Blood smears, thick & thin, 3-4 minimum (microscopy) Whole blood in EDTA (PCR)	Form CL-397, HGR, or RFLT (ADPH Website)	Venipuncture or capillary draw. Optimum collection time is halfway between chills. If venipuncture used, use blood remaining in the needle to prepare slides. EDTA blood is acceptable. Citrated, oxalated, or heparinized blood may not adhere to slides & may interfere with staining.	Prepared smears are stored at room temp EDTA Blood - Refrigerated	Smears should be made by someone trained in making blood smears. Both thick & thin smears <u>must</u> be included. Allow to air dry thoroughly before packaging. Send 1 pair stained and 1 pair unstained	Micro- scopy & PCR	1-2 working days	Biological Substance, Category B	C
Meningitis, Meningococcal (Culture & Serotyping) Neisseria meningitidis	Micro- Conven- tional & Molecu- lar	All providers	Pure culture	HGR, or RFLT (ADPH Website)	Blood CSF Bronchoalveolar lavage Nasopharyngeal or oropharyngeal swabs	Room temp	After 24 hrs incubation at 35°C., ship immediately.	PCR	4-6 working days	Biological Substance, Category B	C
<i>Murine Typhus</i> , Antibody	Micro- Conven- tional	All providers	Paired sera, acute and conva- lescent, 2 ml each	HGR, or RFLT (ADPH Website)	Venipuncture, red-top tube, remove serum	Freeze acute serum until convalescent specimen is collected.	Acute specimen should be drawn within 7 days of onset & convalescent specimen 3-6 weeks after onset. Submit both specimens simultaneously.	IFA	2-3 weeks	Biological Substance, Category B	CDC
Norovirus	Micro- Mole- cular	Contact local CHD. Epidemi- ological investigation only	Whole unpreserved feces, a minimum of 0.5 grams or 0.5 ml if liquid	Form BCL- 408; HGR, or RFLT (ADPH Website) Screw-cap container WITHOUT preservative	See Stool Collection Procedure	Refrigerate at 2-8°C	Refrigerate specimen; ship on frozen cold packs & complete the requisition form.	PCR	2-5 working days	Biological Substance, Category B on frozen cold packs	C
Paratyphoid,	Micro-	All	Pure culture;	Form	Stool – Home	Do not store; send	Review	Conven-	3-10	Biological	C

Name	Division	Offered To	Specimen/ Volume	Requisition/ Collection Kit	Collection Procedure	Storage	Special Instructions	Method	Turn-Around-Time	Shipping/ Handling	Lab
Culture & Serotyping	Conventional	providers	Stool (feces), 1 teaspoonful; Blood; Urine 10 ml of each	CL-425 kit, HGR, or RFLT (ADPH Website)	Venipuncture or Urine Collection Procedure.	immediately	Specimen Collection instructions & diagram with patient	tional tube media ID, slide & tube agglutination	working days	Substance, Category B	
Pertussis, Culture (Whooping Cough)	Micro-Conventional	<i>See Bordetella pertussis</i>									C
Pinworm	Micro-Conventional	All providers	Swube™ paddle touched to the perianal region	HGR, or RFLT (ADPH Website) Pinworm Kit	Stool Collection Procedure - Home for pinworms. Collection times: 9:00 pm -12:00 midnight. This is critical for obtaining a proper specimen.	Refrigerate at 2-8°C if not sent same day as collection	Review Specimen Collection instructions & diagram with patient.	Microscopy	1-2 working days	Biological Substance, Category B	C
Protozoa	Micro-Conventional	<i>See Intestinal Parasites</i>									C
Q-Fever (Coxiella burnetii)	Micro-Molecular	All providers	Whole blood (EDTA) or serum (1 ml)	Form BCL-408, HGR, or RFLT (ADPH Website)	Venipuncture, red-top tube, remove serum Purple-top (EDTA) tube for whole blood.	Refrigerate at 2-8°C if not sent same day as collection	None	PCR	2-3 days	Biological Substance, Category B; Ship with cold packs	C
Rabies	Montgomery & Mobile	All providers & state citizens	Dead, whole mammal, head/brain of mammal suspected of rabies, whose skull is intact. No animals more than 15 lbs or longer than 19 in will be accepted.	Form BCL-264	Do not club or shoot animal in the head. Decapitate large animals (more than 15 lbs or longer than 19 in). Do not bring in specimens that are decomposed or infested with maggots. Do not send specimen in formalin. Double-bagged dead animal or head	Place specimen under refrigeration. However, freeze if necessary until shipment can occur.	No live animals accepted! Any large animals (bovines, equine, etc.) or animals needing multiple testing should be sent to a veterinary diagnostic lab (Auburn, Boaz, or JB Taylor in Elba) to have brain removed.	DFA	1-2 days	Ship in leak-proof container to Central Lab or Mobile Lab packed in enough ice or ice packs to last 24 hrs. Label outside package "Rabies Specimen".	M, C
Respiratory Panel	Micro-EID	Central Office: Epidemiology	Nasopharyngeal swab in viral transport media (VTM)	Flu kit & HGR, or RFLT (ADPH Website) Email FluTestKit@adph.state.al.	See www.adph.org/bcl , Seasonal Influenza for detailed instructions (Guidance for Laboratory Testing for Influenza Viruses)	Refrigerate at 2-8°C	If Avian Influenza suspected, contact Central Office-ID or the Central State Health Lab for instructions.	Film Array	2-5 working days	Ship on cold packs as Biological Substance, Category B	C

Name	Division	Offered To	Specimen/ Volume	Requisition/ Collection Kit	Collection Procedure	Storage	Special Instructions	Method	Turn- Around- Time	Shipping/ Handling	Lab
Rickettsia, Antibody	Micro- Conven- tional	All Providers	Paired sera, acute & conva- lescent. 2 ml each	HGR, or RFLT (ADPH Website)	Venipuncture, red-top tube, remove serum	Freeze acute serum until convalescent specimen is collected.	Acute specimen drawn within 7 days of onset & convalescent specimen drawn 3-6 weeks after onset. Submit both simultaneously.	Forward to CDC for testing	2-3 weeks	Biological Substance, Category B	CDC
Rocky Mountain Spotted Fever, Antibody	Micro- Conven- tional	All Providers	Paired sera, acute & conva- lescent. 2 ml each	HGR, or RFLT (ADPH Website)	Venipuncture, red-top tube, remove the serum.	Freeze acute serum until convalescent specimen is collected.	Acute specimen drawn within 7 days of onset & convalescent specimen drawn 3-6 weeks after onset. Submit both simultaneously.	Forward to CDC for testing	2-3 weeks	Biological Substance, Category B	C
Roundworm	Micro- Conven- tional	See Intestinal Parasites									C
<i>Salmonella</i> , Culture	Micro- Conven- tional	See Enteric Culture									C
<i>Salmonella</i> , Serotyping	Micro- Conven- tional	See Enteric Culture									C
Scabies	Micro- Conven- tional	All providers	Skin scraping	HGR, or RFLT (ADPH Website)	Use mineral oil on blade for scraping skin	Place on a slide & seal cover slip with clear fingernail polish. Put in a Petri dish or similar container.	Must be delivered to the lab in 24 hrs or less	Micro- scopy	1-3 days	Biological Substance, Category B	C
<i>Shigella</i> , Culture	Micro- Conven- tional	See Enteric Culture									C
<i>Shigella</i> , Serotyping	Micro- Conven- tional	See Enteric Culture									C
Smallpox	Micro- Mole- cular	All providers: requires prior consultation with Central Office; Epidemiol- ogy before	Lesion material	RFLT	Call BCL Micro- Emerging Infectious Diseases	Call BCL Micro- Emerging Infectious Diseases	Call BCL Micro-Emerging Infectious Diseases prior to shipment.	PCR	1-3 days	DANGER- OUS GOODS 6.2, Infectious Substance Category A	C

Name	Division	Offered To	Specimen/ Volume	Requisition/ Collection Kit	Collection Procedure	Storage	Special Instructions	Method	Turn- Around- Time	Shipping/ Handling	Lab	
		submission										
<i>Strongyloides</i>	Micro- Conven- tional	See Intestinal Parasites									C	
Tapeworm	Micro- Conven- tional	See Intestinal Parasites									C	
Trichinosis	Micro- Conven- tional	All providers	Call BCL Micro-Parasitology									C
<i>Trichuris</i>	Micro- Conven- tional	See Intestinal Parasites									C	
Tularemia (Francisella tularensis)	Micro- Conven- tional & Molecu- lar	All providers	Call BCL Micro-Reference Bacteriology	Universal Form, HGR, or RFLT (ADPH Website)	Chocolate Whole Blood	Send immediately	Call prior to shipment	Conven- tional tube media & PCR	7-14 days	DANGER- OUS GOODS 6.2, Infectious Substance Category A	C	
Typhoid	Micro- Conven- tional	See <i>Salmonella</i> Culture									C	
Varicella zoster virus (Chicken Pox)	Micro- Molecu- lar	All providers: requires prior consultation with Central Office; Epidemi- ology before submission	Cellular material collected from the base of a fresh lesion using Dacron® Swab	PCR Form CL-40, HGR, or RFLT (ADPH Website)	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 & transported on wet ice as soon as possible. If storage is necessary, freeze at ≤ -70°C.	Ship frozen with dry ice or cold packs in leak- proof container to Montgomery Central Lab	DFA & PCR	1-3 working days	Biological Substance Category B	C	
<i>Vibrio cholerae</i> , Serotyping	Micro- Conven- tional	All providers	Pure culture	HGR, or RFLT (ADPH Website)	Stool - Stool Collection Procedure	After isolating for pure culture & 24 hrs incubation, ship immediately. If unable to ship soon, refrigerate at 2-8°C.	None	Slide agglutina- tion	3-8 working days	Biological Substance Category B	C	
<i>Vibrio</i> , Food- Borne Outbreak	Micro- Conven- tional	All providers: Epidemi- ological investigation	Call Central Office-Epidemi- ology	Call Central Office- Epidemi- ology	Collect samples in a sterile container.	Refrigerate at 2-8°C	None	Conven- tional tube media, isolation & ID	5-14 days	Ship on cold packs as soon as possible	C	
West Nile Virus, Human Serology	Micro- Molecu- lar	All Providers	Sera	Arboviral Form BCL 140, HGR, or RFLT	Collect blood in red- topped or serum- separator tube; submit at least 1 cc of acute (≤ 13 days) & convale-	Refrigerate at 2-8°C or freeze at -20°C immediately after collection.	Do NOT use preservatives.	ELISA	5 – 10 working days	Ship frozen with dry ice or cold packs in leak-proof	C	

Name	Division	Offered To	Specimen/ Volume	Requisition/ Collection Kit	Collection Procedure	Storage	Special Instructions	Method	Turn- Around- Time	Shipping/ Handling	Lab
				(ADPH Website)	scent (14–21 days).					container	
Whooping Cough	Micro- Conven- tional	<i>See Bordetella pertussis</i>									C
<i>Yersinia</i> , Culture	Micro- Conven- tional	All providers	Pure culture	HGR, or RFLT (ADPH Website)	Stool - see Stool Collection Procedure Blood - see Blood Collection Procedure Lymph nodes	Pure cultures should be held at room temp until shipped.	Incubate blood cultures at both 28°C & 35°C.	Conven- tional tube media, biochemi- cal tests.	3–10 working days	Biological Substance Category B	C
<i>Yersinia</i> , Culture, Food Related	Micro- Conven- tional	All providers- Epidemi- ological investigation	Call Central Office- Epidemiology	Call Central Office- Epidemi- ology	Call Central Office- Epidemiology	Collect samples in a sterile container.	Refrigerate at 2- 8°C.	Conven- tional tube media, isolation & ID	5-14 days	Ship on cold packs as soon as possible	C
<i>Yersinia enterocolitica</i>	Micro- Conven- tional	Specific State Agencies Through Special Contract									C
<i>Yersinia pestis</i>	Micro- Conven- tional & Mole- cular	All providers	Call BCL Micro- Reference Bacteriology	Form CL 421, HGR, or RFLT (ADPH Website)	Sputum SBA	Send immediately	Call prior to shipment	Conven- tional tube media, PCR	7-14 days	DANGER- OUS GOODS 6.2, Infectious Substance Category A	C
Microbiology - Mycology											
Aspergillus, Culture	Micro- Myco- logy	<i>See Fungus Culture</i>									C
Blastomyces, Culture	Micro- Myco- logy	<i>See Fungus Culture</i>									C
Candida, Culture	Micro- Myco- logy	<i>See Fungus Culture</i>									C
Coccidioides, Culture	Micro- Myco- logy	All providers	<u>Clinical</u> Respiratory - 5-10 ml; Tissue - 1g; Body fluids - 10-15 ml; CSF - 2-3 ml, (optimal 10 ml) (minimum recommended	HGR, or RFLT (ADPH Website)	See LRM Appendix Fungal Instructions	<u>Clinical specimen:</u> Refrigerate at 2–8°C <i>except</i> blood, bone marrow, CSF, gastric fluid (keep at ambient temp). Add 100 mg sodium carbonate to gastric within 1 hr. <u>Pure culture:</u> Ambient temp	Sterile 50 ml specimen tube available from BCL. Mailers not provided to private HCP.	Micro- scopy, Exo- antigen, Culture Morpho- logy	1 - 4 weeks	<u>Isolates:</u> Ship as Infectious Substance, Category A UN 2814 <u>Clinical specimen:</u> Biological	C

Name	Division	Offered To	Specimen/ Volume	Requisition/ Collection Kit	Collection Procedure	Storage	Special Instructions	Method	Turn- Around- Time	Shipping/ Handling	Lab
			volume) <i>Or</i> <u>Pure culture</u>							Substance Category B UN 3373	
Cryptococcus, Antigen	Micro- Myco- logy		CSF	Call Respiratory - Mycology							C
Cryptococcus, Culture	Micro- Myco- logy	See Fungus Culture									C
Dermatophytes, Culture	Micro- Myco- logy	See Fungus Culture									C
Fungus, Culture	Micro- Myco- logy	All providers	<u>Clinical</u> Respiratory - 5-10 ml; Tissue - 1g; Body fluids - 10-15 ml; CSF - 2-3 ml (optimal 10 ml) (minimum recommended volume) Or <u>Pure culture</u>	HGR, or RFLT (ADPH Website)	See LRM Appendix Fungal Instructions	<u>Clinical specimen:</u> Do not refrigerate any specimen except sputum, BAL, BW, Urine, and Cath tips. Do not add saline Add 100 mg sodium carbonate to gastric within 1 hr. <u>Pure culture:</u> Ambient temp	Sterile 50 ml specimen tube available from BCL. Mailers provided to private HCP.	Micro- scopy morpho- logy Bio- chemicals, exo- antigens Accuprobe	1 day – 4 weeks	<u>Clinical specimen & all isolates</u> Biological Substance, Category B UN 3373	C
Histoplasmosis, Culture	Micro- Myco- logy	See Fungus Culture									C
Molds	Micro- Myco- logy	See Fungus Culture									C
Mycology, Culture	Micro- Myco- logy	See Fungus Culture									C
Ringworm	Micro- Myco- logy	See Fungus Culture									C
Yeast, Culture	Micro- Myco- logy	See Fungus Culture							Assimila- tion Fermen- tation Morpho- logy, germ tube, bio- chemicals	See Fungus Culture	C
Microbiology - TB											

Name	Division	Offered To	Specimen/ Volume	Requisition/ Collection Kit	Collection Procedure	Storage	Special Instructions	Method	Turn- Around- Time	Shipping/ Handling	Lab
Mycobacteria, Culture	Micro- TB	All providers	<u>Clinical</u> Respiratory - 5-10 ml; Tissue - 1g; Body fluids - 10-15 ml; CSF - 1-3 ml (optimal 10 ml) (minimum recommended volume) <i>Swabs not recommended</i> Or <u>Pure culture</u>	HGR, or RFLT (ADPH Website)	See LRM Appendix AFB collection procedure	<u>Clinical specimen:</u> Refrigerate at 2-8°C <i>except</i> blood, bone marrow, CSF, gastric fluid (keep at ambient temp). Add 100 mg sodium carbonate to gastric within 1 hr. <u>Pure culture:</u> Ambient temp	Sterile 50 ml specimen tube available from BCL. Mailers provided to private HCP.	Micro- scopy, morpho- logy, Accu- probe, HPLC , bio- chemicals PCR, Maldi- TOF	1 day to 6 weeks	<u>Clinical specimens & NTM cultures;</u> Biological Substance, Category B UN 3373 <u>TB cultures,</u> Infectious Substance, Category A UN 2814	C
Mycobacteria, Drug Susceptibility (DST) (See Mycobacteria, culture)	Micro- TB		DST of <i>M.tuber- culosis</i> performed routinely-see criteria-Contact Respiratory Disease					BD Bactec 960, agar proportion	Target: 14-28 days from culture		C
Mycobacteria, Smear	Micro- TB	See Mycobacteria Culture						Fluore- scent Micro- scopy	1 work- ing day		C
Nocardia, Culture	Micro- TB	All providers	Clinical specimen or pure culture	HGR, or RFLT (ADPH Website)	See LRM Appendix AFB Collection Procedure	<u>Clinical specimen:</u> Refrigerate at 2-8°C <i>except</i> blood, bone marrow, CSF, gastric fluid (keep at ambient temp). Add buffer to gastric when collected. <u>Pure culture:</u> Ambient temp	Sterile 50 ml specimen tube available from BCL. Mailers not provided to private HCP.	Micro- scopy, morpho- logy, HPLC (ID to genus level only).	2 days – 6 weeks	<u>Clinical specimen/ Isolate:</u> Biological Substance, Category B UN3373	C
Tuberculosis	Micro- TB	See Mycobacteria									
Newborn Screening	NBS	Mandated by law							Blood spot on filter paper	Refer to Newborn Screening Procedures	C
Sanitary Bacteriology											
Dairy Products	Sanitary	State & CHD envir-	Call BCL - Sanitary Bacteriology								C

Name	Division	Offered To	Specimen/ Volume	Requisition/ Collection Kit	Collection Procedure	Storage	Special Instructions	Method	Turn- Around- Time	Shipping/ Handling	Lab
		onmentalists									
Milk	Sanitary	See Dairy Products									C
Water, Drinking, Fecal Coliform Only	Sanitary	Private individuals may submit water samples from their private wells only. Public water samples must be submitted by certified collectors	Drinking water, 100 ml. Sample bottles may be obtained from state lab or local CHD	Form CL-12 kit	Water Collection	Water samples should NOT be stored.	Notify lab before submitting sample which must be submitted on date agreed upon by lab. \$5 fee for private samples. Fee stamp available at local CHD or State Lab. No charge for samples submitted through & results returned to CHD. Public Water Systems must have PWSID #.	MTF – Multiple Tube Fermentation	48-72 hrs	Identify bottle/ specimen with supplied ID card. Complete forms & return with the bottle.	C
Water, Drinking, Total Coliform & <i>E. coli</i>	Sanitary – Montgomery & Mobile	Private individuals may submit water samples from their private wells only. Public water samples must be submitted by certified collectors.	Drinking water, 100 ml. Sample bottles may be obtained from state lab or local CHD.	Form CL-12 kit	Water Collection	Water samples should NOT be stored.	Water samples must be received within 30 hrs of collection. Submit samples Mon - Thurs. \$5.00 fee for private samples. Fee stamp can be obtained from local CHD or State lab. No charge for samples submitted through & results returned to CHD. Public Water Systems must have a PWSID #.	MMO-MUG	24-48 hrs	Identify bottle/s sample with supplied ID label Complete forms & return with the bottle.	C, M
Water, Fluoride	Sanitary	CHD & HD environment -alists	Call Mont Lab	Form ADPH-F-BCL-25/270	Water Collection	Water samples should not be stored	None	Ion specific	N/A	ID bottle/ sample with supplied ID card. Complete forms &	C

Name	Division	Offered To	Specimen/ Volume	Requisition/ Collection Kit	Collection Procedure	Storage	Special Instructions	Method	Turn- Around- Time	Shipping/ Handling	Lab
										return with the bottle.	
STD											
Chlamydia Trachomatis (CT) &/or Neisseria Gonorrhoeae (GC) Trichomonas Vaginalis (TV)	STD Mont- gomery & Mobile	CHD & Publicly Funded HCP Private physicians	Male urethral swab, endo- cervical swab, urine specimen, & vaginal swab	Web Portal order Serology CT-GC-TV or form CL-79, HGR, or RFLT (ADPH Website)	Urine & Swab Collection for CT &/or GC using GEN- PROBE APTIMA.	Follow instructions for Urine & Swab Collection for CT &/or GC using GEN- PROBE APTIMA, Specimen Transport & Storage.	First void of urine for the day	Amplified DNA	1-7 working days	See instructions	C, M
HIV 1 / 2+O Ag/AB Screening	STD	CHD Federally- funded HCP Private physicians	Serum/ plasma or whole clotted blood, 3-5 mls	Web Portal Serology HIV-EIA or CL-109, HGR, or RFLT (ADPH Website)	Venipuncture, red-top tube; 3.5 ml serum separation tube preferred. Specimen must be received in lab within 7 days of collection.	Refrigerate at 2-8°C for <7 days. Do not exceed 48 hours at ambient temperature including shipping	None	Enzyme Immuno- assay	1 -5 working days	Biological Substance, Category B	C
HIV 1/2 Differentiation Multispot	STD	CHD Federally- funded HCP Private physicians	Serum/ plasma or whole clotted blood, 3- 5 ml	Multispots are only performed on specimens with a reactive screening result	Venipuncture, red-top tube; 3.5ml serum separation tube preferred	Refrigerate at 2-8°C for <7 days. Do not exceed 48 hours at ambient temperature including shipping	Multispots are performed only on specimens with a reactive screening result	Multispot	1-5 Working days	Biological Substance, Category B	C
Measles, German	STD	See Rubella									
Measles, Red	STD	See Rubeola									
Measles Virus Measles, Red Rubeola	STD	CHD only. Contact the Immuni- zation Div. of Health Dept.	Nasopharyngeal or throat swab Urine	Contact Immunizatio n Div for correct form to send	Viral transport media Urine: Collect 10-50 mls in sterile container. Do not add virus transport medium	4°C if shipping within 24 hours. Ship on cold packs. Urine: If shipping is delayed freeze at -70°C. Ship frozen	Specimen should be collected 8-21 days past onset of rash. List rash onset date.	PCR Genotyping	2-4 working days 10 days	Biological Substance, Category B	WS LH
Measles Serology	STD	CHD only. Contact the Immuni- zation Div. of Health Dept	Whole clotted blood or serum, 3-5 ml	Contact Immunizatio n Div for correct form to send	Venipuncture, red-top tube	Refrigerate at 4°C. Do not freeze. Ship on cold packs	Serum samples WILL NOT be accepted w/out a specimen type for Measles PCR	Enzyme Immuno- assay (EIA)	3 working days	Biological Substance, Category B	WS LH
Rubella Virus German	STD	CHD only. Contact the	Nasopharyngeal or throat swab	Contact Immunizatio	Viral transport media	Refrigerate at 4°C if shipping within 24	Specimen should be	PCR Genotyping	2 working	Biological Substance,	WS LH

Name	Division	Offered To	Specimen/ Volume	Requisition/ Collection Kit	Collection Procedure	Storage	Special Instructions	Method	Turn-Around-Time	Shipping/ Handling	Lab
Measles		Immunization Div. of Health Dept.		n Div for correct form to send		hours. Ship on cold packs	collected 8- 21 days past onset of rash. List rash onset date.		days 10 days	Category B	
Syphilis Testing, (VDRL-EIA, RPR, TP-PA)	STD Montgomery & Mobile	CHD Federally-funded HCP Private physicians	Whole clotted blood	Web Portal Serology Syphilis EIA or Form CL-76, HGR, or RFLT (ADPH Website)	Whole blood by Venipuncture, 3.5 ml serum separation tube. Do not centrifuge. Do not separate serum from clot. Specimen must be received in lab within 5 days of collection.	Refrigerate at 2–8°C.	An RPR will be performed on all reactive VDRL-EIA screens	EIA, RPR <i>T. pallidum</i> Particle Agglutination	1-7 working days	Biological Substance, Category B	C, M
RPR	STD	See Syphilis Testing									C
HIV 1 Confirmation NAAT	STD	CHD & publicly funded HCP	2 ml of serum	NAAT testing will only be performed on specimens with a reactive screen and non-reactive or indeterminate Western Blot	Venipuncture, red-top tube; serum separation tube	Refrigerate at 2–8°C.	NAAT testing will only be performed on specimens with a reactive screen and non-reactive or indeterminate Western Blot	NAAT DNA amplification test	5-10 working days	Biological Substance, Category B	C
OraSure HIV-1 Western Blot	STD	ASO, AIDS Service Organizations and CBO (Community Based Organizations in high risk areas.	Oral Fluid	Web Portal, Serology – OraSure Western Blot, CL-109, or HGR, or RFLT (ADPH Website)	Specimen must be collected with OraSure HIV-1 Oral Specimen Collection Device	4-37 °C up to 21 days	Patient should have a previous positive result for HIV by an approved screening test	Western Blot	1-14 days	Biological Substance Category B	C
Mobile Laboratory											
Bay Waters-Fecal Coliform	Mobile	ADPH Bureau of Environmental Services	225 ml sterile bottle	Test request/report form from Mobile lab	Water Collection	Iced & held below 10°C, but not frozen	None	Modified A-1 MPN	1-2 days	Iced; must be tested within 30 hrs of collection	M

Name	Division	Offered To	Specimen/ Volume	Requisition/ Collection Kit	Collection Procedure	Storage	Special Instructions	Method	Turn- Around- Time	Shipping/ Handling	Lab
Shellfish- Fecal Coliform <i>E. coli</i> Aerobic Plate Count	Mobile	ADPH Bureau of Environ- mental Services	12 animals in loosely closed, puncture-proof plastic bags	Test request/ report form from Mobile lab	200 g of meat & liquid after shucking; Minimum 12 animals	Iced & held below 10°C, but not frozen; not submerged in cooler water	None	APHA	1-7 days	Iced; must be tested within 24 hrs of collection	M
Crab meat Fecal Coliform <i>E. coli</i> Aerobic Plate Count	Mobile	ADPH Bureau of Environ- mental Services	150 gm sample in puncture proof containers	Test request/ report form from Mobile lab	Meat from various crab shop stations including cooked crab, lump meat, jumbo lump, claw meat, and claws	Iced & held below 10°C, but not frozen; not submerged in cooler water	None	APHA	1-7 days	Iced; must be tested within 24 hrs of collection	M
Urine, Culture Sensitivity	Mobile	CHD , maternity programs only , federally funded HCP	Mid-stream, clean-catch urine, or catherized specimen	Form CL- 24, HGR, or RFLT (ADPH Website)	Urine Collection	Refrigerate urine transport tube until shipped	Specimens should be received by lab within 48 hrs of collection	Conven- tional media, biochem- ical tests – MIC sensitivity	1-7 working days	Biological Substance, Category B	M
Water, Environmental, Surface, Fecal Coliform, <i>E.coli</i> & <i>Enterococcus</i>	Mobile	County & state environmen- talists	Surface water, 225 ml	Test request/ report form from Mobile lab	Water Collection	Samples must be iced & collected with a temperature control sample	Arrangements are made with lab prior to submission. Samples must be iced at collection point & submitted to lab within 6 hrs of collection. May submit surface water samples when a public health hazard is suspected.	mTEC membrane filtration for <i>E.coli</i> & fecal coliform. EPA method 1600 for <i>Entero- coccus</i> APHA- MPN Fecal Coliform & <i>E. coli</i> .	30 hrs	Hand deliver samples on ice within 6 hrs of collection	M
Water, Phytoplankton, Harmful Algal Bloom	Mobile	State, county, & municipal agencies or prearranged contract to universities	Water, approxi- mately 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	Phyto- plankton report,/ water collection jars & preservative are available	Water Collection with acidified Lugol's preservative. Live samples can be analyzed qualitatively, but not quantitatively.	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.	Notify lab that samples are on the way. Live samples must be kept cool, not cold (use newspaper to insulate the bottles). Bring to lab as soon as possible.	Utermohl type settling with. micro- scopic examina- tion	3-4 days	Submit as soon as possible	M

* Venipuncture serum-separator tube: remove serum immediately after centrifugation & place in serum transport tube.

** Values outside the normal range will be highlighted on the report. Panic values will be called to designated contact.

Acronyms

CHD - County Health Department
CSF - Cerebrospinal Fluid
CT - Chemical Terrorism
DFA - Direct Fluorescent Antibody

FA - Fluorescent Antibody
g - Grams
HD - Health Department
HGR – Horizon Generated Request

HPLC - High Pressure Liquid Chromatography
IFA - Indirect Fluorescent Antibody
PCR - Polymerase Chain Reaction
PFGE - Pulsed Field Gel Electrophoresis

PPT - Plasma Preparatory Tube
RFLT – Requisition Form for Laboratory Testing
RIA - Radioimmunoassay
temp – Temperature