

## 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
Aerobic & Anaerobic Bacteria ID	Micro- Conven- tional	All providers	Call BCL Micro- Reference Bacteriology	Form CL 421	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
Alanine Amino- Transferase (ALT, SGPT)	Chem.- Clin.	CHD & Publicly Funded HCP	Serum, 3 ml	CL–58	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	CL–58	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	CL–58	Venipuncture*	Refrigerate at 2-8°C if not shipped immediately	None	Chem. Analyzer	1–3 working days	Biological Substance, Category B	C
Amoebae	Micro- Conven- tional	All providers	See Intestinal Parasite Procedures	Intestinal Parasite (IP) Kit F308/Form CL-397	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 concen- tration, PVA & acid fast	3-5 working days	Biological Substance, Category B	C
Amylase	Chem.- Clin.	CHD & Publicly Funded HCP	Serum, 3 ml	CL-58	Venipuncture*	Refrigerate at 2-8°C if not shipped immediately	None	Chem. Analyzer	1-3 working days	Biological Substance, Category B	C
Anthrax	Micro- Conven- tional	All providers	Call BCL Micro- Reference Bacteriology	Form CL 421	Blood Culture Collection  Sputum - Sputum Collection Procedure	Send immediately	None	Conven- tional tube media	1-3 days	DANGER- OUS GOODS 6.2 Infectious Substance Category A	C
Arthropods	Micro- Conven- tional	All providers	Call BCL Micro- Parasitology	IP Kit CL-397 Formalin only	Place intact arthropod in vial containing formalin or alcohol	Send immediately	None	Micro- scopic exam	3-5 days	Ship at room temp	C
<i>Ascaris</i>	Micro- Conven- tional	All providers	See Intestinal Parasite Procedures	Intestinal Parasite Kit F308/Form CL-397	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 concen- tration, PVA &	3-5 working days	Biological Substance, Category B	C

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Aspartate Aminotransferase (AST, SGOT)	Chem.-Clin.	CHD & Publicly Funded HCP	Serum, 3 ml	CL-58	Venipuncture*	Refrigerate at 2-8°C if not shipped immediately	None	Chem. Analyzer	1-3 working days	Biological Substance, Category B	C
Aspergillus, Culture	Resp.	See Fungus Culture									C
Basic Metabolic Panel	Chem.-Clin.	CHD & Publicly Funded HCP	Serum, 3 ml	Form CL-58	Venipuncture *	Refrigerate at 2-8°C if not shipped immediately	None	Chem. Analyzer	1-3 working days	Biological Substance, Category B	C
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
Bay Waters- <i>Vibrio vulnificus</i>	Mobile	ADPH Bureau of Environmental Services	225 ml sterile bottle	Test request/report form from Mobile lab	Water Collection	Sample held at ambient temp; not in ice	Must be run the same day as collection	3 Tube MPN & biochemicals	1-7 days	Ambient temp & tested the same day as collection	M
Bicarbonate (CO <sub>2</sub> )	Chem.-Clin.	CHD & Publicly Funded HCP	Serum, 3 ml	CL-58	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	CL-58	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
Bioterrorism Samples	Micro-Molecular	FBI consultation required prior to submission									C
Blastomyces, Culture	Resp.	See Fungus Culture									C
Blood Urea Nitrogen (BUN)	Chem.-Clin.	CHD & Publicly Funded HCP	Serum, 3 ml	CL-58	Venipuncture*	Refrigerate at 2-8°C if not shipped immediately	None	Chem. Analyzer	1-3 working days	Biological Substance, Category B	C
<i>Bordetella pertussis</i> , - Culture & PCR	Micro-Conventional & Molecular	All providers	Nasopharyngeal (NP) aspirate/wash, 1ml; NP swab	Jones-Kendrick (JK) media  Form BCL-421 (culture)  Form BCL-408 (PCR)	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	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-Conventional 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 &	C

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										shipped next business day. Cultures should be transported to arrive Mon -Thurs.	
Botulism (Culture; Food Poisoning Investigation)	Micro-Conventional	All providers: requires prior consultation with Central Office; Epidemiology before submission	Call the Central Office; Epidemiology Division	Form CL 424	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)	None	Conventional biochemicals & Mouse bioassay	1-3 days	Ship on cold packs.  Ship food separately from clinical samples.	C
Botulism (Toxicity)	Micro-Molecular	All providers: requires prior consultation with Central Office; Epidemiology before submission	Call BCL, Micro-Emerging Infectious Diseases	Foods: Form CL-424  Clinical specimens: CL-421	Call Microbiology for specific collection.	Refrigerate until shipped	Call Lab in advance of shipment	Mouse bioassay	1-3 days	Ship on cold packs. Ship food separately from clinical samples. Package & ship as an Infectious Substance, Category B	C
<i>Brucella</i> (Culture)	Micro-Conventional	All providers	Call BCL Micro-Reference Bacteriology	Form CL 421	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	Conventional tube media ID	7-10 days	DANGEROUS GOODS 6.2 Infectious Substance Category A	C
Calcium	Chem.-Clin.	CHD & Publicly Funded HCP	Serum, 3 ml	CL-58	Venipuncture*	Refrigerate at 2-8°C if not shipped immediately	None	Chem. Analyzer	1-3 working days	Biological Substance, Category B	C
<i>Campylobacter</i> (Culture; Food)	Micro-Conven-	All providers;	Pure culture (Rectal swabs	Form CL-421	Pure cultures should be plated & grown on	Refrigerate at 2-8°C until shipped	Rectal swabs are accepted for	Conventional tube	5-10 working	Biological Substance,	C

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Poisoning Investigation)	tional	Food investigation by Central Office Epidemiology	placed in Cary-Blair transport media may be accepted for epidemiologic purposes. Call the BCL, Microbiology Division Bacteriology Section		appropriate media; rectal swabs must be placed in Cary-Blair media		epidemiological purposes only. Call Microbiology for assistance.	media ID	days	Category B	
Candida, Culture	Resp.	See Fungus Culture									C
Chancroid: <i>Haemophilus ducreyi</i>	Micro-Conventional	All HCP for pure isolates only. CHD for clinical specimens.	Call BCL Micro-Bacteriology	GC + FBS media, CO <sub>2</sub> bag & Form CL 421	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+BBS) with the collection swab by rolling the swab across one portion of the plate, then streak the inoculum for isolation with a sterile loop or swab.	Place inoculated plate into a CO <sub>2</sub> bag; incubate at 31° - 33° C for 48 hrs before shipping.	None	Conventional tube media ID	9-10 days	Biological substance Category B	C
Chemistry Profiles	Chem.-Clin.	CHD & Publicly Funded HCP	Serum, 3 ml	CL-58 Kit	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
Chlamydia Trachomatis (CT) &/or Neisseria Gonorrhoeae (GC)	STD Mobile	CHD & Publicly Funded HCP	Male urethral swab, endocervical swab, urine specimen, & vaginal swab	CL-79	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
Chloride	Chem.-Clin.	CHD & Publicly Funded HCP	Serum, 3 ml	CL-58	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	CL-58	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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<i>Clostridium botulinum</i>	Micro- Conven- tional	See Botulism									C	
Coccidioides, Culture	Resp.	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) <i>Or</i> <u>Pure culture</u>	Form CL-414	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 Substance Category B UN 3373	C	
Complete Blood Count (CBC), Without Differential	Chem.- Clin..	CHD & Publicly Funded HCP	EDTA Whole Blood (Purple top tube), 5 ml	CL-58	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	CL-58	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	CL-58	Venipuncture*	Refrigerate at >8° if not shipped immediately	None	Chem. Analyzer	1-3 working days	Biological Substance, Category B	C	
Cryptococcus, Antigen	Resp.		CSF	Call Respiratory - Mycology							C	
Cryptococcus, Culture	Resp.	See Fungus Culture									C	
<i>Crypto- sporidium</i>	Micro- Conven- tional	All providers	Stool (feces), 1 teaspoonful	IP Kit CL- 397	Stool Collection Procedure - Home	Do not store; send immediately	Review stool collection instructions & diagram with patient	Kinyoun acid fast stain	3 -5 working days	Biological Substance, Category B	C	
Dairy Products	Sanitary	State & CHD enviro- nmentalists	Call BCL - Sanitary Bacteriology									C
Dermatophytes, Culture	Resp.	See Fungus Culture									C	
Diabetes: Glucose	Chem.- Clin.	See Glucose									C	
Diphtheria (Culture)	Micro- Conven-	All providers	Pure culture, swab (throat,	Form CL-421	Throat Swab Collection Procedure	Room temp	If using transport tubes	Conven- tional tube	3-12 working	<u>Pure culture</u> Biological	C	

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	tional		nasopharynx or cutaneous lesion)				with moisture ampoules, ensure swabs are immersed.	media ID. We forward to CDC for toxigen- icity testing.	days	Substance, Category B <u>Swabs</u> Category B	
Electrolytes (Na, K, Cl, CO <sub>2</sub> )	Chem.- Clin.	CHD & Publicly Funded HCP	Serum, 3 ml	Form CL-58	Venipuncture*	Refrigerate at 2-8°C if not shipped immediately	None	Chem. Analyzer	1-3 working days	Biological Substance, Category B	C
<i>Entamoeba histolytica</i>	Micro- Conven- tional	See Intestinal Parasites									C
Enteric, Culture ( <i>Salmonella</i> , <i>Shigella</i> , <i>Escherichia 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)	CL-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	3-5 working days	<i>E. coli</i> 0157:H7 or suspected toxigenic strains (pure culture); DANGEROUS 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	CL-421	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 - DANGEROUS 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.,	CL-425 kit for feces specimen, Form CL- 421 for	Stool Collection Procedure - Home	Stools should be refrigerated at 2-8°C.	Specimen must be collected within first 5 days of illness. Review Stool	Slide & tube agglutina- tion	7-14 working days	DANGEROUS GOODS 6.2, Infectious Substance	C

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			Sorbitol MacConkey agar plate)	plated media			Collection Procedure with patient.			Category A (pure culture, & stool culture broths); Biological Substance, Category B (stool)	
Ferritin	Chem.- Clin.	CHD & Publicly Funded HCP	Serum, 3 ml	Form CL-58	Venipuncture*	Refrigerate at 2-8°C if not shipped immediately	None	Chem. Analyzer	1-3 working days	Biological Substance, Category B	C
Food Poisoning	CT	CHD & HD environ- mentalists	Call the local CHD	Call Central Lab for more information							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
Fungus, Culture	Resp.	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>	Form CL-414	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 morpho- logy  Bio- chemicals, exo- antigens	1 day – 4 weeks	<u>Clinical specimen &amp; all isolates</u> <i>except</i> Coc- cioides, Biological Substance, Category B UN 3373 <u>Coccidioides Isolates:</u> Biological Infectious Substance, Category A UN2814	C
Gamma Glutamyl Transpeptidase (GGTP)	Chem.- Clin.	CHD & Publicly Funded HCP	Serum, 3 ml	Form CL-58	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.-	HIV/Viral	Plasma,	Form CL-58	Venipuncture -	Separated plasma	Specimens	Trugene	7-14	Biological	C

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	Clin.	Load Genotype Grant approved participants & CHD	3-5 ml		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."	should be stored at -20°C.	should be collected Mon- Thurs. Specimens collected on Fri. must be received by lab Fri before noon. Plasma may be transported at 2- 8°C or frozen.	PCR	working days	Substance Category B	
Giardiasis ( <i>Giardia</i> )	Micro- Up	See Intestinal Parasites									C
Glanders Disease ( <i>Burkholderia mallei</i> )	Micro- Conven- tional & Molecu- lar	All providers	Call BCL Micro- Reference Bacteriology	Form CL-421	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	Conven- tional tube media ID & PCR	5-7 days	DANGER- OUS GOODS 6.2, Infectious substance Category A	C
Glucose	Chem.- Clin.	CHD & Publicly Funded HCP	Serum, 3 ml	Form CL-58	Venipuncture*	Refrigerate at 2-8°C if not shipped immediately	None	Chem. Analyzer	1-3 working days	Biological Substance, Category B	C
Gonorrhea (GC), Culture, Confirmation	Micro- Conven- tional	All providers	Pure culture	Form CL-421	Blood collection  CSF (see physician)  Genital discharge	After isolating for pure culture & 24 hrs incubation, ship immediately	None	Biochem- ical tests (conven- tional tube media ID; DFA)	4-7 working days	Biological Substance, Category B	C
Gonorrhea, Culture (GC), Screen For Non-Genital Sites	Mont. & Mobile	Designated STD Centers in AL only	Exudate plated on State Lab supplied Modified Thayer Martin (MTM) media or commercial MTM.	MTM, CO <sub>2</sub> bag  Form ADPH-F- BCL-296	Follow CDC guidelines, "Guide for the Diagnosis of Gonorrhea Using Culture and Gram Stained Smears"	Incubate inoculated plate 48 hrs at 35°C; ship immediately, refrigerate at 2-8°C & ship as soon as possible	After plate inoculation, put plate into bio- bag. Remove CO <sub>2</sub> sachet from pouch, place it in bag with plate & seal. Incubate 48 hrs at 35°C.	Oxidase, Gram stain, conven- tional tube media; FA confirm- ation (as needed)	1-3 working days after 48 hours incu- bation	Biological Substance, Category B  Do not send plates via U.S. Postal Service	M, C

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Glycohemoglobin (Diabetes) (Glycosylated Hemoglobin) (HbA1C)	Chem.-Clin..	CHD & Publicly Funded HCP	EDTA Whole Blood, 3 ml	Form CL-58	Venipuncture, EDTA tube	Refrigerate at 2-8°C if not shipped immediately	Immediately after collecting, invert purple-top tube 8-10 times.	Chem. Analyzer	1-3 working days	Biological Substance, Category B	C
<i>Haemophilus</i> , Culture & Serotyping	Micro-Conventional	All providers	Pure culture	Form CL-421	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	Biochemical tests (conventional tube media ID); slide agglutination	4-6 working days	Biological Substance, Category B	C
<i>Haemophilus ducreyi</i>	Micro-Conventional	See Chancroid									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								
Hepatic Function Panel	Chem.-Clin.	CHD & Publicly Funded HCP	Serum, 3 ml	Form CL-58 Kit	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	CL-58	Venipuncture*	Refrigerate at 2-8°C if not shipped immediately	None	Chem. Analyzer	1-3 working days	Biological Substance, Category B	C
Histoplasmosis, Culture	Resp.	See Fungus Culture									C
HIV 1 / 2 Screening & Confirmation (Western Blot)	STD	CHD Federally-funded HCP Private physicians	See Human Immunodeficiency Virus	CL-109	Venipuncture, red-top tube; serum separation tube preferred for whole blood	Refrigerate at 2-8°C.	None	Enzyme Immunoassay & Western Blot	1-10 working days	Biological Substance, Category B	M
Human Immunodeficiency Virus, Type 1 (HIV 1 / 2)	STD	CHD Federally-funded HCP Private physicians	Serum/ plasma or whole clotted blood, 3-5 ml	Form CL-109	Venipuncture, red-top tube; serum separation tube preferred for whole blood	Refrigerate at 2-8°C.	12 x75 mm collection tube preferred	Enzyme Immunoassay & Western Blot	1-10 working days	Biological Substance, Category B	C
Hookworm	Micro-Conventional	See Intestinal Parasites									C

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Influenza, Bacterial	Micro- Conven- tional	<i>See Haemophilus culture</i>									C
Influenza, Culture	Micro- Molecu- lar	SpeciNet, hospitalized patients, all providers	Swabs, nasal or throat, &/or gargle	Form BCL – QAD & Special Virus Isolation Kit	Throat collection. Place swab in sterile broth after collection. Patients may gargle with 5 ml sterile broth & expectorate into a clean container. Ship immediately.	Refrigerate broth at 2-8°C	None	Virus isolation	2-14 working days	Ship frozen with dry ice or cold packs in leak-proof container	C
Influenzae, Viral Culture	Micro- Conven- tional	All providers	Swabs, nasal or throat, &/or nasal aspirates/washes	FluTestKit@ adph.state.al. us	Please go to <a href="http://www.adph.org/bcl">www.adph.org/bcl</a>	Refrigerate at 2–8°C	Go to <a href="http://www.adph.org/bcl">www.adph.org/bcl</a> , Seasonal Influenzae for instructions. If Avian Influenzae suspected, contact the Central Office- Epidemiology or Central State Health Lab for instructions.	Virus Isolation	2-14 working days	Ship on cold packs.  See <a href="http://www.adph.org/bcl">www.adph.org/bcl</a> , Seasonal Influenzae for detailed instructions.	C
Influenza, Viral (PCR)	Micro- Molecu- lar	All providers	Nasopharyn- geal aspirate wash (preferred), throat swab (Dacron® tip with aluminum or plastic shaft)	Flu kit & PCR Form BCL-40  Go to FluTestKit@ adph.state.al. us	See <a href="http://www.adph.org/bcl">www.adph.org/bcl</a> , Seasonal Influenzae for detailed instructions (Guidance for Laboratory Testing for Influenzae Viruses)	Refrigerate at 2–8°C	If Avian Influenza suspected, contact Central Office- Epidemiology or the Central State Health Lab for instructions.	PCR	1 -5 working days	Ship on cold packs. See <a href="http://www.adph.org/bcl">www.adph.org/bcl</a> , Seasonal Influenzae for detailed instructions.	C
Intestinal Parasites	Micro- Conven- tional	All providers	Stool (feces), 1 teaspoonful, or adult worm	IP Kit F308 Form CL-397	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 concentra- tion, PVA & acid fast	3–5 working days	Biological Substance, Category B	C
Iron	Chem.- Clin.	CHD & Publicly	Serum, 3 ml	Form CL–58	Venipuncture*	Refrigerate at 2-8°C if not shipped	Patient should be fasting.	Chem. Analyzer	1–3 working	Biological Substance,	C

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		Funded HCP				immediately			days	Category B	
Lactate Dehydrogenase (LDH)	Chem.-Clin.	CHD & Publicly Funded HCP	Serum, 3 ml	CL-58	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 µl	Form CL-110	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 µg/dl) will be telephoned.	Atomic Absorption	1-3 working days	Biological Substance, Category B	C
Legionnaires, Antibody	Micro-Conventional	All providers	Paired sera, acute & convalescent. 2 ml each	Form CL-88	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).	Form CL-421	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
Lipid Panel	Chem.-Clin.	CHD & Publicly Funded HCP	Serum, 3 ml	CL-58	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
Listeriosis, ( <i>Listeria</i> ) Culture	Micro- Conven- tional	All providers; ( <i>Listeria</i> culturing offered to CHD & HD environ- mentalists)	Pure culture	Form CL-421	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	Conven- tional tube media ID	5-7 working days	Biological Substance, Category B	C
Low-Density Lipoprotein (LDL) Cholesterol	Chem. Clin.	CHD & Publicly Funded HCP	Serum, 3 ml	CL-58	Venipuncture	Refrigerate at 2-8°C if not shipped immediately	Values highlighted***	Chem. Analyzer	1-3 working days	Biological Substance, Category B	C
Lyme Disease, Antibody	Micro- Molecu- lar	Call BCL, Micro - Bacteriology									C
Lymphocyte Subset Enu- meration (CD4 /CD8- Lymphocyte Count)	Chem.- Clin.	CHD & Publicly Funded HCP	EDTA whole blood, 5 ml	Form CL-58	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 Cytometer	1-3 working days	Biological Substance, Category B for arrival at the lab within 24 hrs of collection	C
Malaria	Micro- Conven- tional & Molecu- lar	All providers	Blood smears, thick & thin, 3-4 minimum (microscopy)  Whole blood in EDTA (PCR)	Form CL-397	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	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.	Micro- scopy & PCR	1-2 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
Measles, German	STD	See Rubella									C
Measles, Red	STD	See Rubeola									C
Meningitis, Meningococcal (Culture & Serotyping)	Micro- Conven- tional	All providers	Pure culture	Form CL- 421	Blood  CSF  Bronchoalveolar lavage  Nasopharyngeal or oropharyngeal swabs	Room temp	After 24 hrs incubation at 35°C., ship immediately.	Conven- tional tube media ID; slide agglutina- tion.	5-7 working days	Biological Substance, Category B	C
Milk	Sanitary	See Dairy Products									C
Molds	Resp.	See Fungus Culture									C
<i>Murine Typhus</i> , Antibody	Micro- Conven- tional	All providers	Paired sera, acute and conva- lescent, 2 ml each	Form CL-88	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
Mycobacteria, Culture	Resp.	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>	CL-412, 413	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 not provided to private HCP.	Micro- scopy, morpho- logy, Accu- brobe, HPLC, bio- chemicals	1 day -8 weeks	<u>Clinical specimens &amp; 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)	Resp.		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

Name	Division	Offered To	Specimen/ Volume	Requisition/ Collection Kit	Collection Procedure	Storage	Special Instructions	Method	Turn- Around- Time	Shipping/ Handling	Lab
Mycobacteria, Smear	Resp.	See Mycobacteria Culture						Fluorescent Micro- scopy	1 work- ing day		C
Mycology, Culture	Resp.	See Fungus Culture									C
Newborn Screening	NBS	Mandated by law or Newborn Screening	Blood spot on filter paper	Refer to Newborn Screening Procedures							C
Nocardia, Culture	Resp.	All providers	Clinical specimen or pure culture	CL-412, 413	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
Norovirus	Micro- Molecu- lar	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; Screw- cap container <b>WITHOUT</b> 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
Parainfluenza, Viral Culture	Micro- Conven- tional	All providers	Swabs, nasal or throat, &/or washes; gargle	FluTestKit@ adph.state.al. us	Please go to <a href="http://www.adph.org/bcl">www.adph.org/bcl</a>	Refrigerate specimen at 2-8°C.	Go to <a href="http://www.adph.org/bcl">www.adph.org/bcl</a> , Seasonal Influenzae for detailed instructions.	Virus isolation	2-14 working days	Ship on cold packs.  See <a href="http://www.adph.org/bcl">www.adph.org/bcl</a> , Seasonal Influenzae for detailed instructions.	C
Paratyphoid, Culture & Serotyping	Micro- Conven- tional	All providers	Pure culture; Stool (feces), 1 teaspoonful; Blood; Urine 10 ml of each	Form CL-425 kit	Stool – Home Venipuncture or Urine Collection Procedure.	Do not store; send immediately	Review Specimen Collection instructions & diagram with patient	Conven- tional tube media ID, slide & tube agglutina- tion	3-10 working days	Biological Substance, Category B	C
Pertussis, Culture / Smear (Whooping)	Micro- Conven- tional	See <i>Bordetella pertussis</i>									C

Name	Division	Offered To	Specimen/ Volume	Requisition/ Collection Kit	Collection Procedure	Storage	Special Instructions	Method	Turn- Around- Time	Shipping/ Handling	Lab
Cough)											
Phosphorus	Chem.- Clin.	CHD & Publicly Funded HCP	Serum, 3 ml	Form CL-58	Venipuncture*	Refrigerate at 2-8°C if not shipped immediately	None	Chem. Analyzer	1-3 working days	Biological Substance, Category B	C
Pinworm	Micro- Conven- tional	All providers	Swube™ paddle touched to the perianal region	Form CL-397; 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.	Micro- scopy	1-2 working days	Biological Substance, Category B	C
Potassium	Chem.- Clin.	CHD & Publicly Funded HCP	Serum, 3 ml	Form CL-58	Venipuncture*	Refrigerate at 2-8°C if not shipped immediately	None	Chem. Analyzer	1-3 working days	Biological Substance, Category B	C
Protozoa	Micro- Conven- tional	See Intestinal Parasites									C
Q-Fever	Micro- Molecu- lar	All providers	Whole blood (EDTA) or serum (1 ml)	Form BCL- 408	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	Mont. & 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
Renal Function Panel	Chem.- Clin.	CHD & Publicly Funded HCP	Serum, 3 m.	Form CL-58	Venipuncture*	Refrigerate at 2-8°C if not shipped immediately	None	Chem. Analyzer	1-3 working days	Biological Substance, Category B	C
Rickettsia, Antibody	Micro- Conven- tional	All Providers	Paired sera, acute & conva- lescent. 2 ml each	Form CL-88	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	Forward to CDC for testing	2-3 weeks	Biological Substance, Category B	CDC

Name	Division	Offered To	Specimen/ Volume	Requisition/ Collection Kit	Collection Procedure	Storage	Special Instructions	Method	Turn- Around- Time	Shipping/ Handling	Lab
							both simultaneously.				
Ringworm	Resp.	See Fungus Culture									C
Rocky Mountain Spotted Fever, Antibody	Micro-Conventional	All Providers	Paired sera, acute & convalescent. 2 ml each	Form CL-88	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-Conventional	See Intestinal Parasites									C
Rubella IgM	STD	CHD only. Contact the Immunization Div. of Health Dept.	Whole clotted blood or serum, 3-5 ml	Miscellaneous Form	Venipuncture, red-top tube	Refrigerate at 2-8°C.	Specimen should be collected 8-21 days past onset of rash. List rash onset date.	Enzyme Immunoassay (EIA)	2-4 working days	Biological Substance, Category B	C
Rubeola (IgG)	STD	CHD only. Contact the Immunization Div. of Health Dept	Whole clotted blood or serum, 3-5 ml	Form CL-98	Venipuncture, red-top tube	Refrigerate at 2-8°C.	None	Enzyme Immunoassay (EIA)	2-4 working days	Biological Substance, Category B	C
Rubeola, IgM	STD	CHD only. Contact the Immunization Div. of Health Dept.	Whole clotted blood or serum, 3-5 ml	Form CL-98	Venipuncture, red-top tube	Refrigerate at 2-8°C.	Specimen should be collected 8- 21 days past onset of rash. List rash onset date.	Enzyme Immunoassay (EIA)	2-4 working days	Biological Substance, Category B	C
<i>Salmonella</i> , Culture	Micro-Conventional	See Enteric Culture									C
<i>Salmonella</i> , Serotyping	Micro-Conventional	See Enteric Culture									C
Shellfish-Fecal Coliform <i>E. coli</i> Aerobic Plate Count	Mobile	ADPH Bureau of Environmental 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
Shellfish-	Mobile	ADPH	12 animals in	Test request/	200 g of meat & liquid	Iced & held below	Can be run on	3 Tube	1-7 days	Sample	M

Name	Division	Offered To	Specimen/ Volume	Requisition/ Collection Kit	Collection Procedure	Storage	Special Instructions	Method	Turn- Around- Time	Shipping/ Handling	Lab	
<i>Vibrio vulnificus</i>		Bureau of Environmental Services	loosely closed, puncture-proof plastic bags	report form from Mobile lab	after shucking; Minimum 12 animals	10°C, but not frozen; not submerged in cooler water	same sample used for APHA MPN for fecal coliforms if sample can be analyzed same day as collection	MPN & biochemicals		cannot be refrigerated over night		
<i>Shigella</i> , Culture	Micro-Conventional	See Enteric Culture									C	
<i>Shigella</i> , Serotyping	Micro-Conventional	See Enteric Culture									C	
Sodium	Chem.-Clin.	CHD & Publicly Funded HCP	Serum, 3 ml	Form CL-58	Venipuncture*	Refrigerate at 2-8°C if not shipped immediately	Values highlighted***	Chem. Analyzer	1-3 working days	Biological Substance, Category B	C	
<i>Strongyloides</i>	Micro-Conventional	See Intestinal Parasites									C	
Syphilis Testing, (VDRL, TP-PA)	STD Montgomery, Mobile	CHD Federally-funded HCP Private physicians	Whole clotted blood or serum, 3-5 ml	Form CL-76	Venipuncture, red-top tube, serum separation tube preferred	Refrigerate at 2-8°C.	None	Venereal Disease Reference Laboratory Procedure, <i>T. pallidum</i> Particle Agglutination	1-7 working days	Biological Substance, Category B	C, M	
T4/ TSH, Adult	Chem.-Clin.	CHD & Publicly Funded HCP	See Thyroid Profile for information									C
Tapeworm	Micro-Conventional	See Intestinal Parasites									C	
Thyroid Profile	Chem.-Clin.	CHD & Publicly Funded HCP	Serum, 3 ml	Form CL-58	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 Capacity (TIBC/UIBC)	Chem.-Clin.	CHD & Publicly Funded HCP	Serum, 3 ml	CL-58	Venipuncture*	Refrigerate at 2-8°C if not shipped immediately	None	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
Total Protein	Chem.- Clin.	CHD & Publicly Funded HCP	Serum, 3 ml	Form CL-58	Venipuncture*	Refrigerate at 2-8°C if not shipped immediately	None	Chem. Analyzer	1-3 working days	Biological Substance, Category B	C
Trichinosis	Micro- Conven- tional	All providers	Call BCL Micro-Parasitology								C
<i>Trichuris</i>	Micro- Conven- tional	See Intestinal Parasites									C
Triglycerides	Chem.- Clin.	CHD & Publicly Funded HCP	Serum, 3 ml	CL-58	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
Tuberculosis	Resp.	See Mycobacteria									C
Tularemia	Micro- Conven- tional	All providers	Call BCL Micro-Reference Bacteriology					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
Uric Acid	Chem.- Clin.	CHD & Publicly Funded HCP	Serum, 3 ml	Form CL-58	Venipuncture*	Refrigerate at 2-8°C if not shipped immediately		Chem. Analyzer	1-3 working days	Biological Substance, Category B	C
Urine, Culture Sensitivity	Mobile	CHD maternity programs only	Mid-stream, clean-catch urine, or catherized specimen	Form CL-24	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
Varicella zoster virus (Chicken Pox)	Micro- Molecu- lar	All providers	Cellular material collected from the base of a fresh lesion using Dacron® Swab	PCR Form CL-40	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
VDRL	STD	See Syphilis Testing									C
<i>Vibrio cholerae</i> , Serotyping	Micro- Conven- tional	All providers	Pure culture	Form CL-421	Stool - Stool Collection Procedure	After isolating for pure culture & 24 hrs incubation, ship immediately. If	None	Slide agglutina- tion	3-8 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
						unable to ship soon, refrigerate at 2-8°C.					
<i>Vibrio</i> , Food-Borne Outbreak	Micro- Conven- tional	All providers: Epidemiological investigation	Call Central Office-Epidemiology	Call Central Office-Epidemiology	Collect samples in a sterile container.	Refrigerate at 2-8°C	None	Conventional tube media, isolation & ID	5-14 days	Ship on cold packs as soon as possible	C
Viral Load, HIV	Chem.- Clin.	HIV/Viral Load Grant approved participants & CHD	Plasma, 3-5 ml	Venipuncture, lavender top tube.	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
Water, Drinking, Fecal Coliform Only	Sanitary - Mont	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 #.	Membrane filtration	24 hrs	Submit fecal water sample on ice within 6 hrs of collection. Identify bottle/specimen with supplied ID card. Complete forms & return with the bottle.	C
Water, Drinking, Total Coliform & <i>E. coli</i>	Sanitary - Mont & Mobile	Private individuals may submit water samples from their private wells only. Public water	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 specimens Mon - Thurs. \$5.00 fee for private samples. Fee stamp	MMO-MUG Membrane filtration	24 hrs	Identify bottle/specimen with supplied ID card. Complete forms & return with the bottle.	C, M

Name	Division	Offered To	Specimen/ Volume	Requisition/ Collection Kit	Collection Procedure	Storage	Special Instructions	Method	Turn- Around- Time	Shipping/ Handling	Lab
		samples must be submitted by certified collectors.					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 #.				
Water, Environmental, Surface, Fecal Coliform, <i>E.coli</i> & <i>Enterococcus</i>	Mobile	County & state environmentalists	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>Enterococcus</i> APHA-MPN Fecal Coliform & <i>E. coli</i> .	30 hrs	Hand deliver samples on ice within 6 hrs of collection	M
Water, Fluoride	Sanitary	CHD & HD environmentalists	Call Mont Lab	Form ADPH-F-BCL-25/270	Water Collection	Water samples should not be stored	None	Ion specific	N/A	ID bottle/specimen with supplied ID card. Complete forms & return with the bottle.	C
Water, Phytoplankton, Harmful Algal Bloom	Mobile	State, county, & municipal agencies or prearranged contract to universities	Water, approximately 1 liter May submit estuarine or marine water to be examined for plankton which may cause human illness,	Phytoplankton 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	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	Microscopic examination	3-4 days	Submit as soon as possible	M

Name	Division	Offered To	Specimen/ Volume	Requisition/ Collection Kit	Collection Procedure	Storage	Special Instructions	Method	Turn- Around- Time	Shipping/ Handling	Lab
			discolored water & die-offs of fish, marine mammals, or birds.			done promptly.	possible.				
Western Blot for (+) HIV	STD	CHD & publicly funded HCP	2 ml of serum	Miscellaneous Form	Venipuncture, red-top tube; serum separation tube preferred for whole blood	Refrigerate at 2–8°C.	None	Western Blot	5-8 working days	Submit as soon as possible	C
West Nile Virus, Bird	Micro-Molecular	All Providers	Corvids (crows, blue jays, owls, etc.)	Arboviral Form BCL 133	Double-bag dead bird	Refrigerate at 2-8°C.	None	Vec-Test WNV/ SLE Antigen Assay	1- 5 working days	Ship frozen with dry ice or cold packs in leak-proof container	C
West Nile Virus, Human Serology	Micro-Molecular	All Providers	Sera & CSF	Arboviral Form BCL 140	Collect blood in red-topped or serum-separator tube; submit at least 1 cc of acute ( $\leq$ 13 days) & convalescent (14–21 days). Collect at least 2 cc CSF into tubes.	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 container	C
Whooping Cough	Micro-Conventional	<i>See Bordetella pertussis</i>									C
Yeast, Culture	Resp.	<i>See Fungus Culture</i>						Assimilation Fermentation Morphology, germ tube, biochemicals	<i>See Fungus Culture</i>		
<i>Yersinia</i> , Culture	Micro-Conventional	All providers	Pure culture	Form CL-421	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.	Conventional tube media, biochemical tests.	3–10 working days	Biological Substance Category B	C
<i>Yersinia</i> , Culture, Food Related	Micro-Conventional	All providers-Epidemiological investigation	Call Central Office-Epidemiology	Call Central Office-Epidemiology	Call Central Office-Epidemiology	Collect samples in a sterile container.	Refrigerate at 2-8°C.	Conventional tube media, isolation & ID	5-14 days	Ship on cold packs as soon as possible	C

Name	Division	Offered To	Specimen/ Volume	Requisition/ Collection Kit	Collection Procedure	Storage	Special Instructions	Method	Turn- Around- Time	Shipping/ Handling	Lab
<i>Yersinia enterocolitica</i>	Micro- Conven- tional	Specific State Agencies Through Special Contract									C
<i>Yersinia pestis</i>	Micro- Conven- tional & Molecu- lar	All providers	Call BCL Micro- Reference Bacteriology	Form CL 421	Call BCL Micro- Reference Bacteriology	Call BCL Micro- Reference Bacteriology	None	Conven- tional tube media, PCR	7-14 days	DANGER- OUS GOODS 6.2, Infectious substance Category A	C

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

\*\* Shipping/Handling:

Biological Substance Category B: Use double-walled mailing containers, cardboard outer and metal inner container within 24 hours of collection. See Specimen Collection and Handling section for packaging instructions and Appendix C for U.S. Postal Regulations.

\*\*\* 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

HPLC - High Pressure Liquid Chromatography

IFA - Indirect Fluorescent Antibody

PCR - Polymerase Chain Reaction

PFGE - Pulsed Field Gel Electrophoresis

PPT - Plasma Preparatory Tube

RIA - Radioimmunoassay

temp - temperature