

QUICK REFERENCE GUIDE

For additional information contact OSPHL at 503-229-5882

Last update: March 23, 2004

AGENT/DISEASE	TEST AVAILABLE	AVAILABLE TO	SPECIMEN REQUIREMENTS	REQUEST FORM	FEE/SPECIMEN	TURNAROUND TIME
Acquired Immunodeficiency Syndrome (AIDS)	(See HIV-1)					
<i>Aeromonas</i> species	(See Enteric Pathogens)					
<i>Amebiasis</i>	(See <i>Entamoeba histolytica</i>)					
<i>Anthrax</i>	(See <i>Bacillus anthracis</i>)					
Arbovirus	(See Equine Encephalitis)					
<i>Ascaris lumbricoides</i>	(See Parasites)					
Aspergillosis (<i>Aspergillus</i> species)	Serology: Sent to CDC	All clients	1-2 ml serum or 5-7 ml clotted blood; PAIRED sera for diagnosis; SINGLE convalescent serum to "rule out"	42 + CDC 50.34	No charge	4 weeks
<i>Bacillus anthracis</i>	Serology: Sent to CDC	All clients	Prior consultation with CDC required. (See * below for criteria)	42 + CDC 50.34	No charge	4 weeks
	Culture & Identification	All clients	Clinical specimen or pure culture (ETIOLOGIC AGENT)	75 (reportable)	No charge	7-14 days
<p>* The current criteria for Anthrax serology testing are</p> <ol style="list-style-type: none"> 1. If there is a known exposure to <i>Bacillus anthracis</i> or infected materials, 2. If there is a clinical presentation consistent with anthrax, 3. If there is a clear epidemiological link to a known exposure or infection 			<p>If you have a specimen that meets the criteria please send it to DASH marked for the attention of: Sandy Marsh, MT(ASCP) Microbial Pathogenesis and Immune Response Labs (MPIR) Meningitis and Special Pathogens Branch, CDC/NCID/DBMD 1600 Clifton Rd. NE MS D-01 Atlanta GA 30333 phone: 404-639-1325 Fax: 404-639-4550 E-mail: smartin3@cdc.gov</p>			
<i>Bacillus cereus</i>	(See Food Outbreak)					
Bacterial Culture	Identification or Confirmation	All clients	Pure isolate (ETIOLOGIC AGENT) on agar slant (Petri dish not recommended)	75	\$40.00 No charge for reportable communicable disease organisms	5-14 days

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<i>Blastocystis hominis</i>	(See Parasites)					
Blastomycosis	Serology: Not performed at OSPHL; consult local sources EIA and ID (CDC)	All clients	1-2 ml serum or 5-7 ml clotted blood; PAIRED sera for diagnosis; SINGLE convalescent serum to "rule out".	42 + CDC 50.34	No charge	4 weeks
<i>Bordetella pertussis</i> (Pertussis, Whooping Cough)	Identification	Labs	Pure isolate (ETIOLOGIC AGENT) on appropriate media	75 (reportable)	No charge	2-4 days
	Culture & Identification	All clients	Swab (calgiswab) from nasopharynx in charcoal transport medium. See detailed reference section for more information	75 (reportable)	No charge	12-14 days
<i>Borrelia burgdorferi</i>	(See Lyme Disease)					
<i>Borrelia recurrentis</i>	(See Relapsing Fever)					
Botulism	(See <i>Clostridium botulinum</i>)					
Brucellosis (Undulant Fever; Bang's Disease)	Serology: AGG	All clients	1-2 ml serum or 5-7 ml clotted blood; PAIRED sera for diagnosis; SINGLE convalescent serum to "rule out"	42 (reportable)	No charge	≤ 7 days
	Organism ID/confirmation	Labs	Pure culture (ETIOLOGIC AGENT)	75 (reportable)	No charge	10 days
<i>Burkholdaria pseudomallei</i> (Meliodiosis)	Culture & Identification	All clients	Pure culture on agar slant	75	No charge	7-14 days
Campylobacteriosis (<i>Campylobacter</i> species)	Culture & Identification	Labs, LHD	Upon request, not in routine enteric screen. Pure culture (ETIOLOGIC AGENT) or feces in Cary-Blair or comparable medium	75 (reportable)	No charge	3-5 days

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Candidiasis (<i>Candida albicans</i>)	Serology: Sent to CDC	All clients	1-2 ml serum or 5-7 ml clotted blood; PAIRED sera for diagnosis; SINGLE convalescent serum to "rule out"	42 + CDC 50.34	No charge	4 weeks
Central Nervous System-Neurotropic Viruses: Herpes, Mumps, Polio, Measles, Varicella-Zoster, Echo/Coxsackie	Serology: Polio	All clients	1-2 ml serum or 5-7 ml clotted blood; PAIRED acute and convalescent sera required	42	\$20.30 No charge for Polio or Measles	≤ 7 days
	Isolation (Culture)	All clients	Throat wash, stool, CSF, etc.	42	\$35.00	2-3 weeks
Chagas Disease (<i>Trypanosoma cruzi</i>)	Serology: Sent to CDC	All clients	1-2 ml serum or 5-7 ml clotted blood	42 + CDC 50.34	No charge	4 weeks
	Identification	All clients	Whole blood smear, thin	75	No charge	2 days
Chickenpox/Shingles	(See Varicella-Zoster)					
<i>Chlamydia</i> (group antigen) <i>C. trachomatis</i> <i>C. psittaci</i> Psittacosis Lymphogranuloma venereum (LGV)	Test not performed at OSPHL; consult local sources					
<i>Chlamydia trachomatis</i> Genitourinary infection	Antigen detection: Nucleic acid testing	LHD and other approved clients	Submit swab in OSPHL specimen collection kit., or urine in clean polypropylene container	2000 (reportable) Order white Region X Project form from Ahlers	No charge to Region X Project; \$7.00 for all others	3 days

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<i>Clostridium botulinum</i> (Botulism)	Infant Toxin detection	All clients	Stool specimen only, kept refrigerated (REQUIRES APPROVAL OF ODPE)	75 Reportable	No charge	7-14 days
	Organism detection	All clients	Stool specimen (REQUIRES APPROVAL OF ODPE)	75 Reportable	No charge	2-3 weeks
	Foodborne Toxin detection	All clients	MINIMUM 5cc serum Food; minimum ½ oz. stool (REQUIRES APPROVAL OF ODPE; ETIOLOGIC AGENT; ANAEROBIC CULTURE)	75 Reportable	No charge	5-14 days
	Culture & Identification					2-3 weeks
	Wound Toxin detection	All clients	MINIMUM 5cc serum Swab from site in transport medium (Aimes, Stewarts, etc.) Pure isolate from site. (REQUIRES APPROVAL OF ODPE; ETIOLOGIC AGENT; ANAEROBIC CULTURE)	75 Reportable	No charge	5-14 days
	Culture & Identification					2-3 weeks
<i>Clostridium difficile</i>	Toxin detection not available at OSPHL; consult local sources					
<i>Clostridium perfringens</i>	(See Food Outbreak)					
<i>Coccidioidomycosis</i> (<i>Coccidioides immitis</i>)	Serology: Not performed at OSPHL; consult local sources					
	ID (CDC)	All clients	1-2 ml serum or 5-7 ml clotted blood; PAIRED sera for diagnosis; SINGLE convalescent serum to "rule out"	Identification also requires CDC Form 50.34	No charge	4 weeks
	CF on CSF (CDC)	All clients	1-2 ml cerebrospinal fluid	42 + CDC 50.34	No charge	4 weeks
Colorado Tick Fever	Serology: Sent to CDC	All clients	1-2 ml serum or 5-7 ml clotted blood; PAIRED sera for diagnosis; SINGLE convalescent serum to "rule out;" pertinent epidemiological information	42+ CDC 50.34	No charge	4 weeks

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<i>Corynebacterium diphtheriae</i> Diphtheria	Culture, Identification & Biotyping	All clients	Throat swab or membrane swab; Pure culture; (ETIOLOGIC AGENT)	42+ CDC 50.34	No charge	7-14 days
	Determination of Toxigenic Strain	All clients	Throat swab or membrane swab; Pure isolate on agar slant: (ETIOLOGIC AGENT)	75 (reportable)	No charge	7-14 days
Coxsackie virus	Isolation (Culture)	All clients	Throat wash, stool, CSF, etc.	42	\$35.00	≤ 4 weeks
	Culture Identification (see Virus)	All clients	An isolate in cell culture	42	\$40.00	10 days
<i>Coxiella burnetti</i>	(See Q Fever)					
Cryptococcosis (<i>Cryptococcus neoformans</i>)	Serology: Sent to CDC	All clients	1-2 ml serum or 5-7 ml clotted blood; PAIRED sera for diagnosis; SINGLE convalescent serum to "rule out"	42+ CDC 50.34	No charge	4 weeks
	Antigen detection by LA (CDC)	All clients	1 ml spinal fluid or 1-2 ml serum	42+ CDC 50.34	No charge	4 weeks
Cryptosporidiosis (<i>Cryptosporidium</i>)	(See Parasites)					
Cysticercosis (<i>Taenia solium</i>)	Serology: Sent to CDC Identification (see Parasites)	All clients	1-2 ml serum or 5-7 ml clotted blood	42+ CDC 50.34	No charge	4 weeks
Cytomegalovirus (CMV)	Isolation	All clients	Throat wash, urine, tissue, spinal fluid; ship ASAP on ice pack; DO NOT FREEZE	42	\$35.00	≤4 weeks
	Culture Identification (see Virus)	All clients	An isolate in cell culture	42	\$40.00	2-4 weeks
Dengue Fever	Serology: Sent to CDC	All clients	1-2 ml serum or 5-7 ml clotted blood; PAIRED sera for diagnosis; SINGLE convalescent serum to "rule out;" collect convalescent serum 16 weeks after onset	42+ CDC 50.34	No charge	4 weeks

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Diphtheria	(See <i>Corynebacterium diphtheriae</i>)					
Echinococcosis (<i>Echinococcus</i>)	Serology: Sent to CDC	All clients	1-2 serum or 5-7 ml clotted blood; PAIRED sera for diagnosis; SINGLE convalescent serum to "rule out"	CDC 50.34	No charge	4 weeks
<i>E. coli</i> O157:H7	(See <i>Escherichia coli</i> and Enteric Pathogens)					
Ehrlichiosis (Human)	Serology: Sent to CDC	All clients	Consult OSPHL for submission requirements	42+ CDC 50.34	No charge	4 weeks
<i>Entamoeba histolytica</i>	Serology: Sent to CDC	All clients	Minimum of 2 ml serum; single titers performed; requires result of stool exam	42+ CDC 50.34	No charge	4 weeks
	Identification	LHD	See Parasites	75	No charge	4 days
Enteric Pathogens (culture) (<i>Salmonella</i> & <i>Shigella</i> routinely; <i>E. coli</i> O157:H7, <i>Vibrio</i> , <i>Campylobacter</i> , <i>Aeromonas</i> or <i>Yersinia</i> on request)	Culture	LHD	Swab of fecal material inserted into tube of Cary-Blair medium; SPECIFY ORGANISM(S)	75	No charge	5 days
	Serotyping of <i>Salmonella</i> , <i>Shigella</i> , <i>E.coli</i> O157:H7 only	Labs	Pure isolate	75	No charge	4 days
<i>Enterobius vermicularis</i>	(See Pinworm)					
Enterovirus, Echovirus, and Coxsackievirus	Isolation (Culture)	All clients	Throat wash, stool, CSF	42	\$35.00	≤ 4 weeks
	Culture Identification (see Virus)	All clients	An isolate in cell culture	42	\$40.00	10 days
Epstein-Barr Virus	Serology & Culture not available at OSPHL; consult local sources					

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Equine Encephalitis (Arbovirus, arthropod borne)	Serology: IgM Sent to CDC	All clients	For IgM-Capture EIA, submit acute specimen within 4-5 days from onset. Convalescent must be submitted later. (4-6 weeks)	42+ CDC 50.34	No charge	4 weeks
	Serology: Sent to CDC	All clients	CSF and/or 1-2 ml serum or 5-7 ml clotted blood; PAIRED sera for diagnosis. Submit single convalescent serum to "rule out" 6 weeks after acute illness. Must include clinical and epidemiologic data.	42+ CDC 50.34	No charge	4 weeks
Erythema Infectiosum (Fifth Disease)	(See Parvovirus B-19)					
<i>Escherichia coli</i> : O157:H7	Culture	All clients	Swab of fecal material inserted into tube of Cary-Blair medium	75 (reportable)	No charge	4 days
	Identification	Labs	Pure isolate on agar slant	75 (reportable)	No charge	4 days
Filariasis & Microfilariasis	Identification (Serology not available)	All clients	Blood smears; thick smears for microfilariae drawn between 10 PM and 2 AM	75 (reportable)	No charge	2 days
Food Outbreak - <i>Salmonella</i> , <i>Shigella</i> , <i>Vibrio</i> , <i>C. perfringens</i> , <i>B. cereus</i> , <i>Staphylococcus</i> * - Botulism (<i>C botulinum</i>)	Culture & Identification	All clients	Food, feces, vomitus; submit through local health department. (REQUIRES APPROVAL OF ODPE) Call OSPHL for specific handling requirements.	75 (reportable)	No charge	3-7 days
	Toxin detection	All clients	Stool; minimum ½ oz. serum; minimum 5 cc food; call for instructions	75 (reportable)	No charge	5-14 days
	Culture & Identification					2-3 weeks

* *Staph*, *C. perfringens*, *B. cereus*, if feces is to be tested, require raw stool, no transport medium

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<i>Francisella tularensis</i> (Tularemia)	Serology: AGG	All clients	1-2 ml serum or 5-7 ml clotted blood; PAIRED sera for diagnosis; SINGLE convalescent serum to "rule out"	42 (reportable)	No charge to LHD; \$20.30 to all others	≤ 7 days
	Culture & Identification	All clients	Pure isolate or clinical specimen; preferable to culture immediately; CONTACT OSPHL BEFORE COLLECTION AND SHIPMENT	75 (reportable)	No charge	2-14 days
Giardiasis (<i>Giardia lamblia</i>)	(See Parasites)					
Gonorrhea	(See <i>Neisseria gonorrhoeae</i>)					
Hantavirus	Serology: IgM and IgG	All clients	Prior consultation with ODPE required 1-2 ml serum or 5-7 ml clotted blood; PAIRED sera for diagnosis or a SINGLE convalescent serum to "rule out" Draw acute specimen no sooner than 21 days from onset of symptoms, draw convalescent 2 weeks after acute	42 and 43 (Hantavirus case report form)	No charge	7 days
<i>Haemophilis influenzae</i>	(See Meningitis, bacterial)					
Hepatitis A Anti-HAV-IgM	MEIA	LHD	1-2 ml serum or 5-7 ml clotted blood	42 (reportable)	No charge	≤ 3 days
Anti-HAV (Total; IgG/IgM)	MEIA	All clients	Same as above	42 (reportable)	No charge for food handlers \$16.00 to LHD \$20.30 to all others	≤ 7 days

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Hepatitis B						
HBsAg	EIA	LHD other clients	1-2 ml serum or 5-7 ml clotted blood	42 (reportable)	No charge to LHD; others call for pricing	4-7 days 4-7 days
Anti-HBc (HBcAb)	EIA	LHD other clients	Same as above	Same as above	No charge to LHD; others call for pricing	4-7 days 4-7 days
Anti-HBc-IgM (HBcAb-IgM)	MEIA	LHD other clients	Same as above	Same as above	No charge to LHD; others call for pricing	4-7 days 4-7 days
Anti-HBs (HBsAb)	EIA	LHD other clients	Same as above	Same as above	No charge to LHD; others call for pricing	4-7 days 4-7 days
Prenatal Screen for HBsAg	EIA	LHD only	Same as above	Same as above	Medicaid billable	4-7 days
Pre and post vaccine screens	EIA	All clients	Same as above	Same as above	No charge to LHD employees; \$7.00 to all others	4-7 days 4-7 days
Other HBV markers	Varies (CDC)	LHD	Same as above	42 + CDC 50.34	No charge	3-6 weeks
Acute Panel (Anti-HAV IgM, HBsAg, Anti-HBc)	EIA	LHD other clients	1-2 ml serum or 5-7 ml clotted blood	42	No charge to LHD \$40.00 to all others	4-7 days 4-7 days
Carrier Status (HBsAg, Anti-HBc IgM)	EIA	LHD other clients	Same as above	Same as above	No charge to LHD \$40.00 to all others	4-7 days 4-7 days
HBV Contact (HBsAg, Anti-HBc)	EIA	LHD other clients	Same as above	Same as above	No charge to LHD \$27.30 to all others	4-7 days 4-7 days
Infant of HBsAg+Mom (HBsAg, Anti-HBs)	EIA	LHD other clients	Same as above	Same as above	No charge to LHD \$27.30 to all others	4-7 days 4-7 days

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Hepatitis C Anti-HCV	EIA screening <u>only</u> (Confirmation available as a sendout, on request)	LHD & other approved clients	1-2 ml serum or 5-7 ml clotted blood	42 (reportable)	\$14.00 to LHD \$20.30 to all others	5-7 days
Hepatitis Delta	Serology: Sent to CDC	LHD	Antigen detection (CDC) Needs to be a documented Hepatitis B carrier	42+ CDC 50.34	No charge	4+ weeks
Hepatitis E	Serology: Sent to CDC	LHD	Consult ODPE	42 + CDC 50.34	No charge	3-6 weeks
Hepatitis NANB	Serologic tests not available at OSPHL; consult local sources					
Histoplasmosis (<i>Histoplasma capsulatum</i>)	Serology: Mycelia Yeast Not performed at OSPHL; consult local sources Identification (CDC)	All clients	PAIRED sera for diagnosis; SINGLE convalescent serum to "rule out"	42 + CDC 50.34	No charge	1-6 weeks
HIV-1	Serology: EIA (Includes confirmation)	All clients	1-2 ml serum or 5-7 ml clotted blood	44 (reportable)	No charge to LHD-CTS; \$12.00 to all others. Screen includes confirmation	≤ 3 days if negative ≤ 10 days if positive or indeterminate
	Western Blot	All clients	On EIA reactives/equivocals	44	\$40.00 (No charge to LHD)	1-7 days
	IFA	All clients	On Western Blot indeterminates/negatives	44	\$40.00 (No charge to LHD)	1-7 days
	Oral fluid testing	LHD others w/approval	Oral fluid specimens collected using the OraSure device	44 specify "oral fluid"	\$3.00 for collection kit; others call for pricing	See HIV-1 EIA

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HIV-2	Serology: Sent to CDC	All clients	Patients symptomatic for HIV with negative HIV-1 serology 1-2 ml serum or 5-7 ml clotted blood	44 + CDC 50.34	No charge	4 weeks
HTLV I, II	Serology: Sent to CDC	See requirement	Prior consultation and approval required by CDC. Must have information available on patient at time of request 1-2 ml serum or 5-7 ml clotted blood	44 + CDC 50.34	No charge	4 weeks
Hookworm	(See Parasites)					
Infant Botulism	(See <i>Clostridium botulinum</i>)					
Infectious Mononucleosis	Not available at OSPHL; consult local sources					
Influenza	(See Respiratory Viruses)					
Kawasaki Syndrome	Serology: presently not available at CDC					
Lead, Blood	Not available at OSPHL; consult local sources					
Leptospirosis <i>Leptospira</i> spp. Weil's Disease	Serology: IHA	All clients	1-2 ml serum or 5-7 ml clotted blood; PAIRED sera for diagnosis; SINGLE convalescent serum to "rule out"	42 (reportable)	No charge	≤ 7 days 3-4 weeks (CDC)
	Positives sent to CDC for serotyping MAT (CDC)	All clients	Same as above	42 + CDC 50.34	No charge	1-6 weeks
Listeriosis (<i>Listeria</i> species)	Identification	Labs	Pure isolate on agar slant	75	No charge	5-14 days
Lyme Disease (<i>Borrelia burgdorferi</i>)	Serology: EIA screening Positives sent to CDC for Western Blot	All clients	1-2 ml serum or 5-7 ml clotted blood Draw specimen no <u>sooner</u> than 21 days from onset of symptoms	42	No charge No charge	≤ 7 days for 1-4 weeks for confirmation
Lymphocytic Choriomeningitis	Serology: Sent to CDC	All clients	1-2 ml serum or 5-7 ml clotted blood; PAIRED sera for diagnosis; SINGLE convalescent serum to "rule out"	42 + CDC 50.34	No charge	4 weeks

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Lymphogranuloma Venereum (LGV) (see <i>Chlamydia</i>)	Not available at OSPHL; consult local sources						
Malaria (<i>Plasmodium</i> species)	Serology:	Sent to CDC	All clients	1-2 ml serum or 5-7 ml clotted blood from symptomatic patients with repeatable negative smears	42 + CDC 50.34 (reportable)	No charge	3-4 weeks
	Identification		All clients	Thick and thin blood smears	75 (reportable)	No charge	1-2 days
Measles (Rubeola)	Serology		All clients	1-2 ml serum or 5-7 ml clotted blood; send out	42 (reportable)	No charge if approved by Immunization; otherwise billed at cost	≤ 7 days
	Isolation (Culture)		All clients	Throat wash, urine		No charge	2-3 weeks
Melioidosis	(See <i>Burkholdaria pseudomallei</i>)						
Meningitis (bacterial) (<i>Neisseria meningitidis</i> , <i>Haemophilus influenzae</i>)	Identification & Serotyping		Labs	Pure isolate (ETIOLOGIC AGENT) recommended on agar slant	75 (<i>H. influenzae</i> meningitis and <i>N. meningitidis</i> reportable)	\$40.00 No charge if <i>N. meningitidis</i> , <i>H. influenzae</i> meningitis, or ODPE request	2-3 days
Meningococcal meningitis	(See Meningitis)						
Moniliasis	(See Candidiasis)						
Mononucleosis	Serology and culture not available at OSPHL; consult local sources.						
Mumps	Serology		All clients	1-2 ml serum or 5-7 ml clotted blood	42	No charge if approved by Immunization; otherwise billed at cost	≤ 7 days
	Isolation culture		All clients	Throat wash, urine, CSF	42	\$35.00	≤ 3 weeks
Murine Typhus	(See Rickettsiae)						

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<i>Mycobacterium tuberculosis</i> (Tuberculosis)	Culture (conventional and Bactec)	LHD	Sputum, body fluids, tissue	8533 (reportable)	No charge	2-14 weeks
	Identification & Confirm by DNA probe only; <i>M. tuberculosis</i> complex, <i>M. avium</i> complex	All clients	Pure isolate on Lowenstein-Jensen (L-J) or comparable medium, Bactec pellet, MGIT Broth	8533 (reportable)	No charge	1-7 days
	Drug sensitivity (conventional and Bactec)	All clients	Direct sensitivity on specimens with AFB positive smears done by request only	8533 (reportable)	No charge	4 weeks
		All clients	Indirect sensitivity on all <i>M. tuberculosis</i> isolates and pure <i>M. tuberculosis</i> isolates submitted on L-J or comparable medium	8533 (reportable)	No charge	1-4 weeks
<i>Mycoplasma pneumoniae</i>	Test not performed at OSPHL; consult local sources					
<i>Neisseria gonorrhoeae</i> (Gonorrhea)	A. Smears	LHD	Urethral or cervical smears from symptomatic patients or contacts of known cases	75 (reportable)	No charge	1 day
	B. Culture Confirmation	All clients	One air-dried slide from oxidase positive culture	75 (reportable)	No charge	1 day
			Pure isolate incubated 12-24 hrs. before shipment. PPNG performed on all <i>N. gonorrhoeae</i> isolates	75 (reportable)	No charge	2-5 days
<i>Neisseria meningitidis</i>	(See Meningitis, bacterial)					

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Newborn Metabolic Screening	PKU, MSUD, Galactosemia, Congenital Adrenal Hyperplasia, Congenital Hypothyroidism, Biotinidase, Hemoglobinopathies, Expanded Screening for Additional Amino Acid Disorders, Fatty Acid Oxidation Defects and Organic Acidemias	All clients	<p>Blood filter paper specimen with a minimum of 4 blood spots</p> <p>1) First specimen: Collect after 48 hours but within 7 days of birth; if infant is to be discharged at or before 48 hours, collect prior to discharge</p> <p>2) Second specimen: Collect at 2 weeks of age if 1st specimen was collected after 48 hours after birth), OR Collect at 5 days of age or before 14 days of age if 1st specimen was collected before 48 hours of age</p> <p>NOTE: Specimen for screening will be accepted on infants up to 2 years of age (MAIL SPECIMEN WITHIN 24 HOURS AFTER COLLECTION)</p>	Newborn screening kit	<p>\$27.00 (1st) <u>\$27.00</u> (2nd)</p> <p>\$54.00 TOTAL</p> <p>(prepaid by hospital or birth facility)</p>	4 days (90 percent of specimens)
Noroviruses (Norwalk-like Viruses)	RT-PCR	All clients	Collect 5 ml stool (walnut-sized pieces if formed) in a screw-cap container. Refrigerate specimen and transport on ice or cold pack.	42	No charge for outbreaks (requires approval by ODPE) \$40.00 to all others	≤ 7 days
Parasites	Intestinal parasites - Identification	LHD	Formed stools - feces preserved in formalin. Liquid stools or to rule out suspect cases, submit a minimum of 3 specimens preserved in formalin & PVA. Consult ODPE for follow-up recommendations.	75	No charge	2-5 days
	Blood parasites - Identification	All clients	See specific agent or disease	75	No charge	1-2 days
	Serology: Sent to CDC	All clients	Available for select organisms. Please contact the OSPHL. 1-2 ml serum or 5-7 ml clotted blood	42 + CDC 50.34 for serology	No charge	4 weeks

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AGENT/DISEASE	TEST AVAILABLE	AVAILABLE TO	SPECIMEN REQUIREMENTS	REQUEST FORM	FEE/SPECIMEN	TURNAROUND TIME
Parainfluenza Virus	(See Respiratory Viruses)					
Parvovirus B-19 (Erythema Infectiosum, Fifth Disease)	Serology: IgM & IgG	All clients	1-2 ml serum or 5-7 ml clotted blood; PAIRED sera preferred. Collect acute specimen 2 weeks after exposure	42	No charge to LHD \$20.30 to all others	≤ 7 days
Pertussis (Whooping Cough)	(See <i>Bordetella pertussis</i>)					
Pinworm (<i>Enterobius vermicularis</i>)	Identification	LHD	Cellophane tape/slide preparation submitted in slide holder, or other suitable pinworm kit	75	No charge	1-2 days
PKU	(See Newborn Screening)					
Plague	(See <i>Yersinia pestis</i>)					
Pneumococcus	(See <i>Streptococcus pneumoniae</i>)					
Poliovirus I, II, III	Serology: CF (Diagnostic only, <u>not immune status</u>)	All clients	1-2 ml serum or 5-7 ml clotted blood; acute and convalescent PAIRED sera	42 (reportable)	No charge	≤ 7 days
	Isolation (Culture)	All clients	Throat wash, stool, CSF, etc.	42 (reportable)	No charge	≤ 2 weeks
<i>Pseudomonas aeruginosa</i> and others	Culture & Identification	State agencies	Outbreaks in public, licensed spas	75	No charge	3-7 days
Psittacosis (see <i>Chlamydia</i>)	Test not performed at OSPHL; consult local sources					
Q Fever (<i>Coxiella burnetti</i>)	Serology: IFA	All clients	1-2 ml serum or 5-7 ml clotted blood; PAIRED sera for diagnosis; SINGLE convalescent serum to "rule out;" pertinent epidemiological information	42 (reportable)	No charge	≤ 7 days

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Rabies	Human Serology: Virus detection in animal	All clients Physicians, LHD & Veterinarians	Serology not available at OSPHL. Call for consultation. Brain or animal head. See detailed reference section for more information	51 (reportable)	No charge	1-7 days
Rat Bite Fever (<i>Streptobacillus moniliformis</i>)	Identification only (CDC)	Labs	Pure culture; (ETIOLOGIC AGENT), pure isolate on agar slant	CDC 50.34	No charge	4-6 weeks
Relapsing Fever (<i>Borrelia recurrentis</i>)	Identification only	All clients	Blood smear	75 (reportable)	No charge	1-2 days
Respiratory Viruses: Influenza, Adenovirus, Respiratory Syncytial, and Parainfluenza viruses	Isolation (Culture)	All clients	Throat wash or swab. Collect within 3 days of onset. Submit <u>unfrozen</u> ASAP for RSV.	42	\$35.00	≤ 4 weeks
	Rule out Flu (Flu season only)	All clients	Throat wash or swab. Collect within 3 days of onset. Box must be checked "R/O Flu"	42	No charge in season; \$15.00 otherwise	≤ 10 days
Reye Syndrome	Serology: not available at OSPHL					
Rickettsiae: Murine Typhus Rocky Mountain Spotted Fever (RMSF) Q Fever	Serology: IFA	All clients	1-2 ml serum or 5-7 ml clotted blood; PAIRED sera for diagnosis; SINGLE convalescent serum collected 4-6 weeks after onset to "rule out;" pertinent epidemiological information	42 (RMSF, Q Fever reportable)	No charge	≤ 7 days
Rocky Mountain Spotted Fever	(See Rickettsiae)					
Roseola Infantum	Not available at OSPHL					
Rotavirus	NOT AVAILABLE EXCEPT FOR OUTBREAKS OF PUBLIC HEALTH SIGNIFICANCE. CONSULT OSPHL. Requires approval by ODPE.					

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Rubella (German Measles)	Serology: Qualitative	All clients	Single convalescent serum for immune status. Paired sera, 1-2 ml of serum or 5-7 ml clotted blood, collect acute 1-2 days after onset of symptoms, convalescent serum 2 weeks later	42	No charge	1-7 days
	Immune status testing; Out-of-state Premarital	All clients	1-2 ml serum or 5-7 ml clotted blood	42	No charge	1-7 days
	Rubella Initiative	Users of state supplied vaccine	1-2 ml serum or 5-7 ml clotted blood	42	No charge	1-7 days
	Prenatal Screen	LHD	1-2 ml serum or 5-7 ml clotted blood	42	No charge Medicaid billable	1-7 days
	Diagnostic (Sendout)	All clients	Collect as soon as soon after rash onset as possible. Paired sera preferred, 1-2 ml of serum or 5-7 ml clotted blood, collect acute 1-2 days after onset of symptoms, convalescent serum 2 weeks later	42 (reportable)	No charge if approved by Immunization Program; otherwise, billed at cost.	≤ 7 days
	Culture: NOT AVAILABLE					
Salmonellosis (<i>Salmonella</i> species)	(See Enteric Pathogens)					

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Schistosomiasis (<i>Schistosoma</i> species)	Serology: Sent to CDC	All clients	1-2 ml serum or 5-7 ml clotted blood; PAIRED sera for diagnosis; SINGLE convalescent serum to "rule out" if illness compatible and negative on O&P exam	42+ CDC 50.34	No charge	4 weeks
<i>Schistosoma haematobium</i>	Identification	LHD	Full void urine between noon and 3 p.m.	75	No charge	2-5 days
<i>Schistosoma mansoni</i> and <i>S. japonicum</i>	Identification	LHD	Stool (see Parasites)	75	No charge	2-5 days
Shigellosis (<i>Shigella</i> species)	Culture & Identification (see Food Outbreak or Enteric Pathogens)					
SIDS (Sudden Infant Death Syndrome)	Not available at OSPHL					
Sporotrichosis (<i>Sporothrix schenckii</i>)	Serology: Sent to CDC	All clients	1-2 ml serum or 5-7 ml clotted blood; acute and convalescent PAIRED sera	42+ CDC 50.34	No charge	4-6 weeks
<i>Staphylococcus</i> spp.	Identification & Confirmation	Labs	Pure isolate (ETIOLOGIC AGENT) on agar slant;	75	No charge	2-5 days
	Phage typing (CDC)	Labs	Pure isolate (ETIOLOGIC AGENT) on agar slant, only for epidemiological studies. Consult with OSPHL prior to sending specimens.	CDC 50.34	No charge	4-6 weeks
<i>Streptococcus pneumoniae</i> (Pneumococcus)	Serotyping: Sent to CDC	Labs	Pure isolate (ETIOLOGIC AGENT) on agar slant. SPECIAL SITUATION ONLY. CALL OSPHL *	CDC 50.34	No charge	4 weeks
	Identification	Labs	Pure isolate (ETIOLOGIC AGENT) on agar slant	75	No charge	3-7 days

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<p>* CDC accepts single pneumococcal isolates for serotyping only in the following situations:</p> <ol style="list-style-type: none"> 1. Vaccine failures (isolates from any body site post receiving either of the licensed pneumococcal vaccines. 2. Single isolates that are related to an outbreak investigation. 						
Strep Throat: Group A <i>Streptococcus</i>	Culture, ID	LHD, State Agencies	Requires approval of ODPE	75	No charge	2-5 days
	Serotype (CDC)	LHD, State Agencies	Requires approval of ODPE	CDC 50.34	No charge	4-6 weeks
Strongyloidiasis <i>(Strongyloides stercoralis)</i>	Serology: Sent to CDC	All clients	1-2 ml serum or 5-7 clotted blood; PAIRED sera for diagnosis; SINGLE convalescent serum to "rule out"	42+ CDC 50.34	No charge	4 weeks
	Identification	LHD	(see Parasites)			
Subacute Sclerosing Panencephalitis (SSPE)	(See Measles)					
Syphilis <i>(Treponema pallidum)</i>	Serology: RPR & FTA-ABS (DS) on request CSF: VDRL	All clients	1-2 ml serum or 5-7 ml clotted blood for RPR & FTA; or one ml (minimum) spinal fluid for VDRL	42 (reportable)	No charge to LHD; others call for pricing	RPR 2 days FTA; VDRL \leq 7 days, done weekly
		Participating LHD only	1-2 ml serum or 5-7 ml clotted blood; or one ml (minimum) spinal fluid	42 (reportable)	Medicaid billable	2-7 days
	Special Prenatal Screen Program for LHD	All clients	0.7 ml serum	42 + CDC 50.34	No charge	3 weeks
	FTA-IgM on infants, only when accompanied by mother's serum (CDC)	Only on request	If FTA-DBS test is equivocal; 1-2 ml serum or 5-7 ml clotted blood	42 + CDC 50.34	No charge	3 weeks
Tetanus <i>(Clostridium tetani)</i>	Serology: not available at OSPHL - consult local sources Identification: Bacteria (see Anaerobic Bacteria)					
Toxic Shock Syndrome	No longer available from CDC					

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Toxocariasis (<i>Toxocara</i> species)	Serology: Sent to CDC	All clients	1-2 ml serum or 5-7 ml clotted blood; PAIRED sera for diagnosis; SINGLE convalescent serum to "rule out"	42+ CDC 50.34	No charge	3-4 weeks
	Identification	LHD	(see Parasites)	75	No charge	2-7 days
Toxoplasmosis (<i>Toxoplasma gondii</i>)	Serology: not available at OSPHL (Consult local sources) Confirmation/Special cases (CDC)	All clients	Previous serological test data required. 1-2 ml serum or 5-7 ml clotted blood	42+ CDC 50.34	No charge	4-6 weeks
Trachoma Inclusion Conjunctivitis (TRIC)	Serology: Sent to CDC Culture: not available at OSPHL (Consult local sources) Direct FA (see <i>Chlamydia trachomatis</i>)	All clients	1-2 ml serum or 5-7 ml clotted blood; requires prior consultation with CDC	42 + CDC 50.34 (reportable)	No charge	3-4 weeks
Trichinosis (<i>Trichinella spiralis</i>)	Serology: Sent to CDC	All clients	1-2 ml serum or 5-7 ml clotted blood	42+ CDC 50.34 (reportable)	No charge	3-4 weeks
	Identification	All clients	Meat or muscle biopsy	75 (reportable)	No charge	1-2 days

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Trypanosomiasis (<i>Trypanosoma cruzi</i>)	(See Chagas Disease)					
Tuberculosis	(See (<i>Mycobacterium tuberculosis</i>))					
Tularemia	(See <i>Francisella tularensis</i>)					
Typhoid Fever (<i>Salmonella typhi</i>)	(See Enteric Pathogens)					
Undulant Fever	(See Brucellosis)					
Varicella - zoster (VZV)	EIA for immune status	All clients	Single convalescent sera for immune status STAT requests only upon consultation with OSPHL	42	\$10.00 to LHD; \$20.30 to all others	≤ 7 days
	Isolation (Culture)	All clients	Lesion swab collected less than 3 days after onset of rash. Submit on ice.	42	\$35.00	2-4 weeks
<i>Vibrio</i> species	(See Enteric Pathogens)					
Virus	Isolation	All clients	See Virus isolation section	42	\$35.00	≤ 4 weeks depending on virus
	Identification	All clients	Cell culture tube with suspected virus growing	42	\$40.00	≤ 4 weeks depending on virus
	Rule out influenza	All clients	Throat wash or swab. Collect within 3 days of onset. Form must be marked: "R/O Flu"	42	No charge in season \$15.00 otherwise	≤ 10 days

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Water Bacteriology: Drinking Water	Heterotrophic Plate Count	LHD, State agencies, noncommunity public systems	100 ml of water; MUST be submitted in OSPHL kits and received within 30 hrs. of collection	50-90	No charge	2 days
	Presence/Absence analysis (Total coliform and Fecal coliform/ <i>E. coli</i>)	LHD, State agencies, noncommunity public systems	100 ml of water; MUST be submitted in OSPHL kits and received within 30 hrs. of collection	50-90	No charge	1-2 days
	Membrane Filter - Total coliform and fecal coliform analysis; <i>E. coli</i>	LHD, DEQ, & State agencies	100 ml of water; MUST be submitted in OSPHL kits and received within 30 hrs. of collection	W001	No charge	1-3 days
Water Bacteriology: Nonpotable waters & sewage effluents	Membrane Filter - fecal coliform and <i>E. coli</i>	LHD, DEQ & State agencies	100 ml (single sample) for each test	W001	No charge	1-3 days
West Nile Virus	Serology; PCR Requires prior approval by ODPE	All clients	1 - 2 serum or 5 - 7 ml clotted blood; ≤ 1 ml CSF <u>minimum</u>	42	No charge	≤ 7 days
Weil's Disease	(See Leptospirosis)					
Whooping Cough	(See <i>Bordetella Pertussis</i>)					
Yellow Fever	Serology: Sent to CDC	All clients	1-2 ml serum or 5-7 ml clotted blood; PAIRED sera for diagnosis; SINGLE convalescent serum to "rule out"; collect conv. serum 6 weeks after onset	42+ CDC 50.34	No charge	4 weeks

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<i>Yersinia enterocolitica</i>	Serology: available only with prior consultation with CDC					
	Culture	All clients	Stool swab in Cary-Blair medium Only upon special request; Not in routine enteric screen	75 (reportable)	No charge	3-5 days
	Identification	All clients	Pure isolate on appropriate medium	75 (reportable)	No charge	3-5 days
<i>Yersinia pestis</i> (Plague)	Serology: Sent to CDC	All clients	5 ml serum	42+ CDC 50.34 (reportable)	No charge	2-4 weeks
	Culture	All clients	Clinical specimen. Consult OSPHL prior to specimen preparation and shipment.	75 (reportable)	No charge	5-7 days
	Identification	All clients	Pure isolate on appropriate medium. Consult OSPHL prior to specimen preparation and shipment.	75 (reportable)	No charge	2-7 days
	Direct Fluorescent Antibody	All clients	Clinical specimen or smears from a clinical specimen. CONSULT OSPHL PRIOR TO SPECIMEN PREPARATION AND SHIPMENT	75 (reportable)	No charge	1-2 days
<i>Yersinia pseudotuberculosis</i>	Serology: available only with prior consultation with CDC					-
	Identification	All clients	Pure isolate on appropriate medium	75 (reportable)	No charge	3-7 days
Zoster (shingles)	(See Varicella-Zoster)					

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