

## QUICK REFERENCE GUIDE

For additional information contact OSPHL at 503-693-4100

Last update: January 2008

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"> <li>1. If there is a known exposure to <i>Bacillus anthracis</i> or infected materials,</li> <li>2. If there is a clinical presentation consistent with anthrax,</li> <li>3. If there is a clear epidemiological link to a known exposure or infection</li> </ol>			<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
<i>Blastocystis hominis</i>	(See Parasites)					

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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
	Real Time PCR		Swab (calgiswab) from nasopharynx in a plain tube provided by OSPHL for this purpose	75 (reportable)	No charge to LHD	2-4 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>Burkholderia pseudomallei</i> (Melioidosis)	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
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

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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	
<i>Clostridium botulinum</i> (Botulism)	<b>Infant</b> 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	
	<b>Foodborne</b> 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	
	<b>Wound</b> Toxin detection			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	

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<i>Clostridium difficile</i>	Toxin detection not available at OSPHL; consult local sources					
<i>Clostridium perfringens</i>	(See Food Outbreak)					
Coccidioidomycosis ( <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
<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)					

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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
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)					

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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					
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
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



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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. <b>Screen includes confirmation</b>	≤ 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
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> )					

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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	All clients	1-2 ml serum or 5-7 ml clotted blood	42	No charge	≤ 7 days for	
	Positives sent to CDC for Western Blot		Draw specimen no <u>sooner</u> than 21 days from onset of symptoms		No charge	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	
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	

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Melioidosis	(See <i>Burkholderia 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.</i> <i>meningitidis</i> reportable)	\$40.00 No charge if <i>N.</i> <i>meningitidis</i> , <i>H.</i> <i>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)					
<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					

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<i>Neisseria gonorrhoeae</i> (Gonorrhea) A. Smears 1) Specimen smears	Detection of intracellular <i>Neisseria</i> organisms	LHD	Urethral or cervical smears from symptomatic patients or contacts of known cases	75 (reportable)	No charge	1 day
	2) Culture smears	LHD	One air-dried slide from oxidase positive culture	75 (reportable)	No charge	1 day
	B. Culture Confirmation	All clients	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)					
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, Cystic Fibrosis	All clients	Blood filter paper specimen with a minimum of 4 blood spots 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 2) Second specimen: Collect at 2 weeks of age if 1st specimen was collected after 48 hours after birth), <b>OR</b> Collect at 5 days of age or before 14 days of age if 1st specimen was collected before 48 hours of age  NOTE: Specimen for screening will be accepted on infants up to 6 months of age (MAIL SPECIMEN WITHIN 24 HOURS AFTER COLLECTION)	Newborn screening kit	\$27.00 (1st) \$27.00 (2nd)  \$54.00 TOTAL  (prepaid by hospital or birth facility)	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

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Parasites	<b>Intestinal parasites - Identification</b>	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
	<b>Blood parasites - Identification</b>	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
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					

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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
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)  Rule out Flu (Flu season only)	All clients  All clients	Throat wash or swab. Collect within 3 days of onset. Submit <u>unfrozen</u> ASAP for RSV.  Throat wash or swab. Collect within 3 days of onset. Box must be checked "R/O Flu"	42  42	\$35.00  No charge in season; \$15.00 otherwise	≤ 4 weeks  ≤ 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)					
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)					

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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
* CDC accepts single pneumococcal isolates for serotyping only in the following situations: 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)					



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Syphilis ( <i>Treponema pallidum</i> )	Serology: RPR & FTA- ABS (DS) on request	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 ≤ 7 days done weekly
	Special Prenatal Screen Program For LHD	All clients	0.7 ml serum	42 + CDC 50.34	No charge	4-7 Days
	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					
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

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Trachoma Inclusion Conjunctivitis (TRIC)	Serology:            Sent to CDC	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
	Culture:            not available at OSPHL (Consult local sources)					
	Direct FA (see <i>Chlamydia trachomatis</i> )					
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
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)					

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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
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)					