

## QUICK REFERENCE GUIDE

For additional information contact OSPHL at 503-693-4100

Last update: October 9, 2009

| 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:<br/>                 Sandy Marsh, MT(ASCP) Microbial Pathogenesis and Immune Response Labs (MPIR)<br/>                 Meningitis and Special Pathogens Branch, CDC/NCID/DBMD<br/>                 1600 Clifton Rd. NE MS D-01<br/>                 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:<br>Not performed at OSPHL;<br>consult local sources<br><br>EIA and ID (CDC) | All clients  | 1-2 ml serum or 5-7 ml clotted blood;<br>PAIRED sera for diagnosis; SINGLE<br>convalescent serum to "rule out".                  | 42 + CDC 50.34     | No charge        | 4 weeks         |
| <i>Bordetella pertussis</i><br>(Pertussis, Whooping Cough) | Identification  | Labs         | Pure isolate (ETIOLOGIC AGENT) on<br>appropriate media   | 75<br>(reportable) | No charge        | 2-4 days        |
|  | Culture & Identification  | All clients  | Swab (calgiswab) from nasopharynx in<br>charcoal transport medium. See detailed<br>reference section for more information        | 75<br>(reportable) | No charge        | 12-14 days      |
|  | Real Time PCR   |              | Swab (calgiswab) from nasopharynx in a<br>plain tube provided by OSPHL for this<br>purpose                                       | 75<br>(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<br>(Undulant Fever; Bang's<br>Disease)         | Serology: AGG   | All clients  | 1-2 ml serum or 5-7 ml clotted blood;<br>PAIRED sera for diagnosis; SINGLE<br>convalescent serum to "rule out"                   | 42<br>(reportable) | No charge        | ≤ 7 days        |
|  | Organism ID/confirmation  | Labs         | Pure culture (ETIOLOGIC AGENT)   | 75<br>(reportable) | No charge        | 10 days         |
| <i>Burkholdaria pseudomallei</i><br>(Melioidosis)          | Culture & Identification  | All clients  | Pure culture on agar slant   | 75                 | No charge        | 7-14 days       |
| Campylobacteriosis<br>( <i>Campylobacter</i> species)      | Culture & Identification  | Labs, LHD    | Upon request, not in routine enteric<br>screen. Pure culture (ETIOLOGIC<br>AGENT) or feces in Cary-Blair or<br>comparable medium | 75<br>(reportable) | No charge        | 3-5 days        |
| Candidiasis<br>( <i>Candida albicans</i> )                 | Serology: Sent to CDC   | All clients  | 1-2 ml serum or 5-7 ml clotted blood;<br>PAIRED sera for diagnosis; SINGLE<br>convalescent serum to "rule out"                   | 42 +<br>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<br>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<br>( <i>Trypanosoma cruzi</i> )   | Serology: Sent to CDC                              | All clients                    | 1-2 ml serum or 5-7 ml clotted blood  | 42 +<br>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)<br><i>C. trachomatis</i><br><i>C. psittaci</i><br>Psittacosis<br>Lymphogranuloma venereum (LGV) | Test not performed at OSPHL; consult local sources |                                |   |   |  |                 |           |
| <i>Chlamydia trachomatis</i> (CT)<br><i>Neisseria gonorrhoea</i> (GC)<br>Combination Test<br>Genitourinary infection             | NAAT – All specimens will received BOTH tests      | LHD and other approved clients | Link to these documents for complete information:<br><a href="#">CT/GC Specimen Procedure</a> and <a href="#">Letter: Testing for CT/GC Combo</a> | 8351 (reportable)<br>Order IPP<br>Region X form   | No charge: Region X Project;<br>All others: charge to be determined<br>CPT Code: 87801 | 3 days          |           |
| <i>Clostridium botulinum</i><br>(Botulism)   | <b>Infant</b><br>Toxin detection                   | All clients                    | Stool specimen only, kept refrigerated (REQUIRES APPROVAL OF ODPE)  | 75<br>Reportable  | No charge  | 7-14 days       |           |
|  | Organism detection                                 | All clients                    | Stool specimen (REQUIRES APPROVAL OF ODPE)  | 75<br>Reportable  | No charge  | 2-3 weeks       |           |
|  | <b>Foodborne</b><br>Toxin detection                | All clients                    | MINIMUM 5cc serum<br>Food; minimum 2 oz. stool (REQUIRES APPROVAL OF ODPE; ETIOLOGIC AGENT; ANAEROBIC CULTURE)                                    | 75<br>Reportable  | No charge  | 5-14 days       |           |
|  | Culture & Identification                           |                                |   |   |  | 2-3 weeks       |           |
|  | <b>Wound</b><br>Toxin detection                    |                                |   | MINIMUM 5cc serum<br>Swab from site in transport medium (Aimes, Stewarts, etc.) Pure isolate from site. (REQUIRES APPROVAL OF ODPE; ETIOLOGIC AGENT; ANAEROBIC CULTURE) | 75<br>Reportable   | No charge       | 5-14 days |
|  | Culture & Identification                           | All clients                    |   |   |  | 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<br>( <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><br>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<br>( <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<br>( <i>Cryptosporidium</i> )       | (See Parasites)   |              |   |   |              |                 |

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| Cysticercosis<br>( <i>Taenia solium</i> )  | Serology: Sent to CDC<br>Identification (see Parasites)                           | All clients  | 1-2 ml serum or 5-7 ml clotted blood   | 42+<br>CDC 50.34 | No charge    | 4 weeks         |
| Cytomegalovirus (CMV)  | Isolation   | All clients  | Throat wash, urine, tissue, spinal fluid;<br>ship ASAP on ice pack; DO NOT<br>FREEZE   | 42               | \$35.00      | ≤4 weeks        |
|  | Culture Identification<br>(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;<br>PAIRED sera for diagnosis; SINGLE<br>convalescent serum to "rule out;" collect<br>convalescent serum 16 weeks after onset | 42+<br>CDC 50.34 | No charge    | 4 weeks         |
| Diphtheria   | (See <i>Corynebacterium diphtheriae</i> )   |              |  |                  |              |                 |
| Echinococcosis<br>( <i>Echinococcus</i> )  | Serology: Sent to CDC   | All clients  | 1-2 serum or 5-7 ml clotted blood;<br>PAIRED sera for diagnosis; SINGLE<br>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<br>requirements   | 42+<br>CDC 50.34 | No charge    | 4 weeks         |
| <i>Entamoeba histolytica</i>   | Serology: Sent to CDC   | All clients  | Minimum of 2 ml serum; single titers<br>performed; requires result of stool exam   | 42+<br>CDC 50.34 | No charge    | 4 weeks         |
|  | Identification  | LHD          | See Parasites  | 75               | No charge    | 4 days          |
| Enteric Pathogens (culture)<br>( <i>Salmonella</i> & <i>Shigella</i><br>routinely; <i>E. coli</i> O157:H7,<br><i>Vibrio</i> , <i>Campylobacter</i> ,<br><i>Aeromonas</i> or <i>Yersinia</i> on<br>request) | Culture   | LHD          | Swab of fecal material inserted into tube<br>of Cary-Blair medium; SPECIFY<br>ORGANISM(S)  | 75               | No charge    | 5 days          |
|  | Serotyping of <i>Salmonella</i> ,<br><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<br>- <i>Salmonella</i> , <i>Shigella</i> , <i>Vibrio</i> , <i>C. perfringens</i> , <i>B. cereus</i> , <i>Staphylococcus</i> *<br><br>- 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 2 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><br>(Tularemia) | Serology:           AGG             | All clients  | 1-2 ml serum or 5-7 ml clotted blood;<br>PAIRED sera for diagnosis; SINGLE<br>convalescent serum to "rule out"  | 42<br>(reportable)                            | No charge to LHD;<br>\$20.30 to all others                                | ≤ 7 days        |
|  | Culture & Identification            | All clients  | Pure isolate or clinical specimen;<br>preferable to culture immediately;<br>CONTACT OSPHL BEFORE<br>COLLECTION AND SHIPMENT   | 75<br>(reportable)                            | No charge   | 2-14 days       |
| Giardiasis<br>( <i>Giardia lamblia</i> )     | (See Parasites)                     |              |   |   |   |                 |
| Gonorrhea                                    | (See <i>Neisseria gonorrhoeae</i> ) |              |   |   |   |                 |
| Hantavirus                                   | Serology: IgM and IgG               | All clients  | Prior consultation with ODPE required<br><br>1-2 ml serum or 5-7 ml clotted blood;<br>PAIRED sera for diagnosis or a SINGLE<br>convalescent serum to "rule out"<br><br>Draw acute specimen no sooner than 21<br>days from onset of symptoms, draw<br>convalescent 2 weeks after acute | 42 and 43<br>(Hantavirus case<br>report form) | No charge   | 7 days          |
| <i>Haemophilis influenzae</i>                | (See Meningitis, bacterial)         |              |   |   |   |                 |
| Hepatitis A<br>Anti-HAV-IgM                  | MEIA                                | LHD          | 1-2 ml serum or 5-7 ml clotted blood  | 42<br>(reportable)                            | No charge   | ≤ 3 days        |
| Anti-HAV (Total; IgG/IgM)                    | MEIA                                | All clients  | Same as above   | 42<br>(reportable)                            | No charge for food<br>handlers<br>\$16.00 to LHD<br>\$20.30 to all others | ≤ 7 days        |

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| Hepatitis B  |   |                                    |                                      |                    |  |                      |
| HBsAg  | EIA   | LHD<br>other clients               | 1-2 ml serum or 5-7 ml clotted blood | 42<br>(reportable) | No charge to LHD;<br>others call for pricing           | 4-7 days<br>4-7 days |
| Anti-HBc<br>(HBcAb)                                | EIA   | LHD<br>other clients               | Same as above                        | Same as above      | No charge to LHD;<br>others call for pricing           | 4-7 days<br>4-7 days |
| Anti-HBc-IgM<br>(HBcAb-IgM)                        | MEIA  | LHD<br>other clients               | Same as above                        | Same as above      | No charge to LHD;<br>others call for pricing           | 4-7 days<br>4-7 days |
| Anti-HBs<br>(HBsAb)                                | EIA   | LHD<br>other clients               | Same as above                        | Same as above      | No charge to LHD;<br>others call for pricing           | 4-7 days<br>4-7 days |
| Prenatal Screen for<br>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<br>employees; \$7.00 to all<br>others | 4-7 days<br>4-7 days |
| Other HBV markers                                  | Varies (CDC)  | LHD                                | Same as above                        | 42 +<br>CDC 50.34  | No charge  | 3-6 weeks            |
| Acute Panel<br>(Anti-HAV IgM, HBsAg, Anti-<br>HBc) | EIA   | LHD<br>other clients               | 1-2 ml serum or 5-7 ml clotted blood | 42                 | No charge to LHD<br>\$40.00 to all others              | 4-7 days<br>4-7 days |
| Carrier Status<br>(HBsAg, Anti-HBc IgM)            | EIA   | LHD<br>other clients               | Same as above                        | Same as above      | No charge to LHD<br>\$40.00 to all others              | 4-7 days<br>4-7 days |
| HBV Contact<br>(HBsAg, Anti-HBc)                   | EIA   | LHD<br>other clients               | Same as above                        | Same as above      | No charge to LHD<br>\$27.30 to all others              | 4-7 days<br>4-7 days |
| Infant of HBsAg+Mom<br>(HBsAg, Anti-HBs)           | EIA   | LHD<br>other clients               | Same as above                        | Same as above      | No charge to LHD<br>\$27.30 to all others              | 4-7 days<br>4-7 days |
| Hepatitis C<br>Anti-HCV                            | EIA screening <u>only</u><br>(Confirmation available as a<br>sendout, on request) | LHD & other<br>approved<br>clients | 1-2 ml serum or 5-7 ml clotted blood | 42<br>(reportable) | \$14.00 to LHD<br>\$20.30 to all others                | 5-7 days             |

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| Hepatitis Delta                                     | Serology: Sent to CDC   | LHD                         | Antigen detection (CDC)<br>Needs to be a documented Hepatitis B carrier  | 42+<br>CDC 50.34        | No charge  | 4+ weeks   |
| Hepatitis E   | Serology: Sent to CDC   | LHD                         | Consult ODPE   | 42 +<br>CDC 50.34       | No charge  | 3-6 weeks  |
| Hepatitis NANB                                      | Serologic tests not available at OSPHL; consult local sources   |                             |  |                         |  |  |
| Histoplasmosis<br>( <i>Histoplasma capsulatum</i> ) | Serology:<br>Mycelia<br>Yeast<br>Not performed at OSPHL;<br>consult local sources<br><br>Identification (CDC) | All clients                 | PAIRED sera for diagnosis; SINGLE convalescent serum to "rule out"   | 42 +<br>CDC 50.34       | No charge  | 1-6 weeks  |
| HIV-1   | Serology: EIA<br>(Includes confirmation)  | All clients                 | 1-2 ml serum or 5-7 ml clotted blood   | 44<br>(reportable)      | No charge to LHD-CTS;<br>\$12.00 to all others.<br><b>Screen includes confirmation</b> | ≤ 3 days if negative<br>≤ 10 days if positive or indeterminate |
|   | Western Blot  | All clients                 | On EIA reactives/equivocals  | 44                      | \$40.00<br>(No charge to LHD)  | 1-7 days   |
|   | IFA   | All clients                 | On Western Blot indeterminates/negatives   | 44                      | \$40.00<br>(No charge to LHD)  | 1-7 days   |
|   | Oral fluid testing  | LHD<br>others<br>w/approval | Oral fluid specimens collected using the OraSure device  | 44 specify Aoral fluid@ | \$3.00 for collection kit;<br>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<br>1-2 ml serum or 5-7 ml clotted blood  | 44 +<br>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<br>1-2 ml serum or 5-7 ml clotted blood | 44 +<br>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<br><i>Leptospira</i> spp.<br>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                   |           |
|   | Positives sent to CDC for serotyping          |              |  |  |   | 3-4 weeks (CDC)            |           |
|   | MAT (CDC)                                     | All clients  | Same as above  | 42 + CDC 50.34   | No charge   | 1-6 weeks                  |           |
| Listeriosis<br>( <i>Listeria</i> species)                 | Identification                                | Labs         | Pure isolate on agar slant   | 75   | No charge   | 5-14 days                  |           |
| Lyme Disease<br>( <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)<br>(see <i>Chlamydia</i> ) | Not available at OSPHL; consult local sources |              |  |  |   |                            |           |
| Malaria<br>( <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)<br>( <i>Neisseria meningitidis</i> ,<br><i>Haemophilus influenzae</i> ) | Identification & Serotyping   | Labs   | Pure isolate (ETIOLOGIC AGENT)<br>recommended on agar slant  | 75<br>( <i>H. influenzae</i><br>meningitis and <i>N.</i><br><i>meningitidis</i><br>reportable) | \$40.00<br>No charge if <i>N.</i><br><i>meningitidis</i> , <i>H.</i><br><i>influenzae</i> meningitis,<br>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<br>by Immunization;<br>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><br>(Tuberculosis)  | Culture (conventional and<br>Bactec)  | LHD  | Sputum, body fluids, tissue  | 8533<br>(reportable)   | No charge  | 2-14 weeks      |
|  | Identification & Confirm by DNA<br>probe only; <i>M. tuberculosis</i><br>complex, <i>M. avium</i> complex | All clients  | Pure isolate on Lowenstein-Jensen<br>(L-J) or comparable medium, Bactec<br>pellet, MGIT Broth  | 8533<br>(reportable)   | No charge  | 1-7 days        |
|  | Drug sensitivity (conventional<br>and Bactec)   | All clients  | Direct sensitivity on specimens with AFB<br>positive smears done by request only   | 8533<br>(reportable)   | No charge  | 4 weeks         |
|  |   | All clients  | Indirect sensitivity on all <i>M. tuberculosis</i><br>isolates and pure <i>M. tuberculosis</i> isolates<br>submitted on L-J or comparable medium | 8533<br>(reportable)   | No charge  | 1-4 weeks       |
| <i>Mycoplasma pneumoniae</i>   | Test not performed at OSPHL; consult local sources  |  |  |  |  |                 |
| <i>Neisseria gonorrhoeae</i> (GC) by<br>NAAT   | Chlamydia/GC Combination Test   | (See <i>Chlamydia trachomatis</i> / <i>Neisseria gonorrhoea</i> Combination) |  |  |  |                 |

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|--|--|--------------|--|-----------------------|--|----------------------------------|
| <i>Neisseria gonorrhoeae</i><br>(Gonorrhea)<br>A. Smears<br>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<br>1) First specimen:<br>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<br>2) Second specimen:<br>Collect at 2 weeks of age if 1st specimen was collected after 48 hours after birth), <b>OR</b><br>Collect at 5 days of age or before 14 days of age if 1st specimen was collected before 48 hours of age<br><br>NOTE:<br>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)<br>\$27.00 (2nd)<br><br>\$54.00 TOTAL<br><br>(prepaid by hospital or birth facility) | 4 days (90 percent of specimens) |
| Noroviruses<br>(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</b> - 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        |
|   | <b>Blood parasites</b> - 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.<br>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<br>\$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<br>( <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<br>(reportable)                  | No charge                                 | ≤ 7 days        |
| Rabies  | Human Serology:<br><br>Virus detection in animal  | All clients<br><br>Physicians,<br>LHD &<br>Veterinarians | Serology not available at OSPHL. Call for consultation.<br><br>Brain or animal head. See detailed reference section for more information   | 51<br>(reportable)                  | No charge                                 | 1-7 days        |
| Rat Bite Fever<br>( <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<br>( <i>Borrelia recurrentis</i> )  | Identification only   | All clients  | Blood smear  | 75<br>(reportable)                  | No charge                                 | 1-2 days        |
| Respiratory Viruses:<br>Influenza, Adenovirus,<br>Respiratory Syncytial, and<br>Parainfluenza viruses | Isolation (Culture)   | All clients  | Throat wash or swab. Collect within 3 days of onset. Submit <u>unfrozen</u> ASAP for RSV. <b><u>NOTE: Nasal washes are not an acceptable specimen for H1N1 testing and will be rejected.</u></b> | 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;<br>\$15.00 otherwise | ≤ 10 days       |
| Reye Syndrome   | Serology: not available at OSPHL  |  |  |                                     |   |                 |
| Rickettsiae:<br>Murine Typhus<br>Rocky Mountain Spotted<br>Fever (RMSF)<br>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<br>(RMSF, Q Fever<br>reportable) | No charge                                 | ≤ 7 days        |
| Rocky Mountain Spotted<br>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<br>(German Measles)                           | Serology:<br>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<br>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<br>(reportable) | No charge if approved by Immunization Program; otherwise, billed at cost. | ≤ 7 days        |
| Culture: NOT AVAILABLE                                |   |                                 |  |                    |   |                 |
| Salmonellosis<br>( <i>Salmonella</i> species)         | (See Enteric Pathogens)   |                                 |  |                    |   |                 |
| Schistosomiasis<br>( <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+<br>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<br><i>S. japonicum</i> | Identification  | LHD                             | Stool (see Parasites)  | 75                 | No charge   | 2-5 days        |
| Shigellosis<br>( <i>Shigella</i> species)             | Culture & Identification (see Food Outbreak or Enteric Pathogens) |                                 |  |                    |   |                 |

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|--|-------------------------------|---------------------|--|------------------|--------------|-----------------|
| SIDS<br>(Sudden Infant Death Syndrome)   | Not available at OSPHL        |                     |  |                  |              |                 |
| Sporotrichosis<br>( <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+<br>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><br>(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:<br>1. Vaccine failures (isolates from any body site post receiving either of the licensed pneumococcal vaccines).<br>2. Single isolates that are related to an outbreak investigation. |                               |                     |  |                  |              |                 |
| Strep Throat: Group A<br><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<br>( <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+<br>CDC 50.34 | No charge    | 4 weeks         |
|  | Identification                | LHD                 | (see Parasites)  |                  |              |                 |
| Subacute Sclerosing Panencephalitis (SSPE)   | (See Measles)                 |                     |  |                  |              |                 |

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|---|---|-----------------|--|-----------------|---|--|
| Syphilis<br>( <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<br>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<br>( <i>Clostridium tetani</i> )      | Serology: not available at OSPHL - consult local sources<br>Identification: Bacteria (see Anaerobic Bacteria) |                 |  |                 |   |  |
| Toxic Shock Syndrome                          | No longer available from CDC  |                 |  |                 |   |  |
| Toxocariasis<br>( <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<br>( <i>Toxoplasma gondii</i> ) | Serology: not available at OSPHL (Consult local sources)<br><br>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<br>Conjunctivitis (TRIC)     | Serology:            Sent to<br>CDC   | All clients  | 1-2 ml serum or 5-7 ml clotted blood;<br>requires prior consultation with CDC              | 42 +<br>CDC 50.34<br>(reportable) | No charge                                | 3-4 weeks       |
|   | Culture:            not<br>available at<br>OSPHL<br>(Consult<br>local<br>sources) |              |  |                                   |  |                 |
|   | Direct FA (see <i>Chlamydia trachomatis</i> )                                     |              |  |                                   |  |                 |
| Trichinosis ( <i>Trichinella spiralis</i> )     | Serology:            Sent to<br>CDC   | All clients  | 1-2 ml serum or 5-7 ml clotted blood   | 42+<br>CDC 50.34<br>(reportable)  | No charge                                | 3-4 weeks       |
|   | Identification  | All clients  | Meat or muscle biopsy  | 75<br>(reportable)                | No charge                                | 1-2 days        |
| Trypanosomiasis<br>( <i>Trypanosoma cruzi</i> ) | (See Chagas Disease)  |              |  |                                   |  |                 |
| Tuberculosis                                    | (See ( <i>Mycobacterium tuberculosis</i> ))                                       |              |  |                                   |  |                 |
| Tularemia                                       | (See <i>Francisella tularensis</i> )  |              |  |                                   |  |                 |
| Typhoid Fever<br>( <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;<br>\$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: AR/O Flu@   | 42               | No charge in season<br>\$15.00 otherwise | ≤ 10 days                    |
| Water Bacteriology:<br>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:<br>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<br>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+<br>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<br>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)                                    |              |  |                            |              |                 |