

Ohio Department of Health, Bureau of Infectious Diseases

Reporting specifics for select diseases reportable by ELR

Disease Name	Class A, requires immediate phone call to local health department	Susceptibilities required*	specimen type specifics~	other specifics+	Reportable test name (can change if state/federal case definition or reporting requirements change)
Amebiasis (Entamoeba histolytica)	No	No	specimen = stool, bile fluid, duodenal fluid, tissue large intestine, tissue small intestine	Culture independent diagnostic tests' (CIDT), like BioFire panel or BD MAX, results should be sent as 260373001^DETECTED^SCT with disease/organism-specific DNA LOINC codes OR a generic CIDT-LOINC code with organism-specific DNA SNOMED codes	E. histolytica Stain E. histolytica DNA E. histolytica Antigen E. histolytica Antibody E. histolytica IgM E. histolytica IgG E. histolytica Total Antibody Ova and Parasite
Anthrax	Yes	No			Anthrax Antibody Anthrax Antigen Anthrax EITB Acute Anthrax EITB Convalescent Culture ELISA PCR Stain/microscopy Stain/spore ID
Arboviral neuroinvasive and non-neuroinvasive disease: Eastern equine encephalitis virus disease; LaCrosse virus disease (other California serogroup virus disease), Powassan virus disease, St. Louis encephalitis virus disease, West Nile virus infection, Western equine encephalitis virus disease, Zika virus infection, Other arthropod-borne disease	No	No	specimen = blood, serum, cerebrospinal fluid; urine is specific to Zika RNA	Equivocal results are accepted for all arboviral diseases; Zika IgM results can include the following results: presumptive Zika positive, presumptive other Flavivirus, Negative, and possible Zika positive	Eastern Equine Encephalitis virus Antibody Eastern Equine Encephalitis virus IgG Antibody Eastern Equine Encephalitis virus IgM Eastern Equine Encephalitis virus RNA California serogroup virus Antibody California serogroup virus IgG Antibody California serogroup virus IgM Antibody California serogroup virus RNA LaCrosse virus Antibody LaCrosse virus IgG Antibody LaCrosse virus IgM Antibody LaCrosse virus RNA Powassan virus Antibody Powassan virus IgG Antibody Powassan virus IgM Antibody Powassan virus RNA St. Louis Encephalitis virus Antibody St. Louis Encephalitis virus IgG Antibody St. Louis Encephalitis virus IgM Antibody St. Louis Encephalitis virus RNA West Nile virus Antibody

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Arboviral neuroinvasive and non-neuroinvasive disease: Eastern equine encephalitis virus disease; LaCrosse virus disease (other California serogroup virus disease), Powassan virus disease, St. Louis encephalitis virus disease, West Nile virus infection, Western equine encephalitis virus disease, Zika virus infection, Other arthropod-borne disease	No	No	specimen = blood, serum, cerebrospinal fluid; urine is specific to Zika RNA	Equivocal results are accepted for all arboviral diseases; Zika IgM results can include the following results: presumptive Zika positive, presumptive other Flavivirus, Negative, and possible Zika positive	West Nile virus IgG Antibody
					West Nile virus IgM Antibody
					West Nile virus RNA
					Western Equine Encephalitis virus Antibody
					Western Equine Encephalitis virus IgG Antibody
					Western Equine Encephalitis virus IgM Antibody
					Western Equine Encephalitis virus RNA
					Zika virus IgM Antibody
Babesiosis (reportable as of 1/2014)	No	No			Zika virus RNA
					Blood smear
					<i>Babesia divergens</i> IFA IgG-titer
					<i>Babesia microti</i> IFA IgG-titer
					<i>Babesia microti</i> IFA total Ig-titer
					<i>Babesia duncani</i> IFA IgG-titer
Botulism (foodborne, infant, and wound)	Yes	No			PCR
					Culture
					<i>C. botulinum</i> DNA
					<i>C. botulinum</i> Antigen
					<i>C. botulinum</i> Antibody
					<i>C. botulinum</i> IgM
					<i>C. botulinum</i> IgG
					<i>C. botulinum</i> Total Antibody
					<i>C. botulinum</i> Toxin
					<i>C. botulinum</i> Toxin A
					<i>C. botulinum</i> Toxin B
Brucellosis	No	No	specimen = blood, serum	Negative results are accepted for Brucella IgG/IgM Antibody	<i>C. botulinum</i> Toxin E
					<i>C. botulinum</i> Toxin F
					Brucella Antibody
					Brucella DNA
					Brucella IgA Antibody
					Brucella IgG Antibody
					Brucella IgM Antibody
					Culture
					agglutination test

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Campylobacteriosis	No	No		Culture independent diagnostic tests' (CIDT), like BioFire panel or BD MAX, results should be sent as 260373001^DETECTED^SCT with disease/organism-specific DNA LOINC codes OR a generic CIDT-LOINC code with organism-specific DNA SNOMED codes	Culture Campylobacter Stain Campylobacter DNA Campylobacter Antigen Campylobacter Antibody Campylobacter IgM Campylobacter IgG Campylobacter Total Antibody Campylobacter PCR
Carbapenemase-producing carbapenem-resistant Enterobacteriaceae (CP-CRE) (CP-CRE Enterobacter spp, CP-CRE Escherichia Coli, CP-CRE Klebsiella spp, CP-CRE Other); (see second sheet for list of most common organisms identified)	No	Yes		Results should include the organism detected as well as the gene resistance mechanism or phenotype test result	Carba NP Carbapenem Inactivation Method (CIM) Culture Metallo-β-lactamase testing (MBL) Modified Carbapenem Inactivation Method (mCIM)
Chancroid	No	No		Specimen type should be specific (e.g. vaginal, cervical, urethral, etc.) and not generic (e.g. genital, swab, etc.)	Culture DFA (Direct Fluorescent antibody) EIA (Enzyme Immunoassay) NAAT (Nucleic Amplification Test), unspecified NAAT, LCR (Ligase Chain Reaction) NAAT, NASBA (Nucleic Acid Sequence Based Analysis) NAAT, PCR (Polymerase Chain Reaction) NAAT, SDA (Strand Displacement Amplification) NAAT, TMA (Transcription Mediated Amplification)
Chlamydia infections	No	No		Specimen type should be specific (e.g. vaginal, cervical, urethral, etc.) and not generic (e.g. genital, swab, etc.)	Culture (organism = Chlamydia trachomatis) DFA (Direct Fluorescent antibody) EIA (Enzyme Immunoassay) NAAT (Nucleic Amplification Test), unspecified NAAT, LCR (Ligase Chain Reaction) NAAT, NASBA (Nucleic Acid Sequence Based Analysis) NAAT, PCR (Polymerase Chain Reaction) NAAT, SDA (Strand Displacement Amplification) NAAT, TMA (Transcription Mediated Amplification)

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Cholera	Yes	No		Culture independent diagnostic tests' (CIDT), like BioFire panel or BD MAX, results should be sent as 260373001^DETECTED^SCT with disease/organism-specific DNA LOINC codes OR a generic CIDT-LOINC code with organism-specific DNA SNOMED codes	Culture (organism = Vibrio cholerae) V. cholerae Stain V. cholerae DNA V. cholerae Antigen V. cholerae O1 Antigen V. cholerae O139 Antigen V. cholerae Antibody V. cholerae O1 Antibody V. cholerae O139 Antibody V. cholerae Toxin V. cholerae DNA by PCR V. cholerae Toyin gene by PCR
Coccidioidomycosis	No	No			Culture Coccidioides Stain Coccidioides DNA Coccidioides Antigen Coccidioides Antibody Coccidioides IgM Coccidioides IgG Coccidioides Total Antibody
Creutzfeldt-Jakob Disease	No	No			Prion Protein CJD 14-3-3 Protein Tau Protein
Cryptosporidiosis	No	No	specimen = stool, duodenal fluid, tissue large intestine, tissue small intestine	Culture independent diagnostic tests' (CIDT), like BioFire panel or BD MAX, results should be sent as 260373001^DETECTED^SCT with disease/organism-specific DNA LOINC codes OR a generic CIDT-LOINC code with organism-specific DNA SNOMED codes	Cryptosporidium Stain Cryptosporidium DNA Cryptosporidium Antigen Cryptosporidium Antibody Cryptosporidium IgM Cryptosporidium IgG Cryptosporidium Total Antibody Ova and Parasite
Cyclosporiasis (organism = Cyclospora cayetanensis)	No	No	specimen = stool, duodenal fluid, tissue large intestine, tissue small intestine	Culture independent diagnostic tests' (CIDT), like BioFire panel or BD MAX, results should be sent as 260373001^DETECTED^SCT with disease/organism-specific DNA LOINC codes OR a generic CIDT-LOINC code with organism-specific DNA SNOMED codes	Cyclospora Stain Cyclospora DNA Cyclospora Antigen Ova and Parasite

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Dengue	No	No	specimen = blood, serum, cerebrospinal fluid	Equivocal results are accepted	Dengue virus Antibody Dengue virus Antigen Dengue virus IgG Antibody Dengue virus IgM Antibody Dengue virus RNA
Diphtheria	Yes	No			Culture (organism = Corynebacterium diphtheriae) Diphtheria IgM Antibody Diphtheria Toxin
E. coli O157:H7 and other enterohemorrhagic (Shiga-toxin producing) E. coli	No	No	specimen = stool	Culture independent diagnostic tests' (CIDT), like BioFire panel or BD MAX, results should be sent as 260373001^DETECTED^SCT with disease/organism-specific DNA LOINC codes OR a generic CIDT-LOINC code with organism-specific DNA SNOMED codes	Culture E. coli DNA E. coli Antigen E. coli O157:H7 Antigen E. coli O157 Antigen E. coli Shiga Toxin E. coli Shiga Toxin 1 E. coli Shiga Toxin 2
Ehrlichiosis / Anaplasmosis	No	No	specimen = blood, serum, cerebrospinal fluid		Anaplasma phagocytophila Antibody Anaplasma phagocytophila IgG Antibody Anaplasma phagocytophila IgM Antibody Culture DNA/PCR Ehrlichia chaffeensis Ab Ehrlichia chaffeensis IgG Ab Ehrlichia chaffeensis IgM Ab Ehrlichia equi Antibody Ehrlichia equi IgG Antibody Ehrlichia equi IgM Antibody Ehrlichia phagocytophila Antibody Ehrlichia phagocytophila DNA Ehrlichia phagocytophila IgG Antibody Ehrlichia phagocytophila IgM Antibody HGE Antibody HGE IgG Antibody HGE IgM Antibody HME IgG Antibody HME IgM Antibody Immunostain Morulae visualization

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Giardiasis	No	No	specimen = stool, bile fluid, duodenal fluid, tissue large intestine, tissue small intestine	Culture independent diagnostic tests' (CIDT), like BioFire panel or BD MAX, results should be sent as 260373001^DETECTED^SCT with disease/organism-specific DNA LOINC codes OR a generic CIDT-LOINC code with organism-specific DNA SNOMED codes	Giardia Stain Giardia DNA Giardia Antigen Giardia Antibody Giardia IgM Giardia IgG Giardia Total Antibody Ova and Parasite
Gonococcal infections	No	Yes		Specimen type should be specific (e.g. vaginal, cervical, urethral, etc.) and not generic (e.g. genital, swab, etc.)	Culture (Organism = Neisseria gonorrhoeae) DFA (Direct Fluorescent antibody) EIA (Enzyme Immunoassay) NAAT (Nucleic Amplification Test), unspecified NAAT, LCR (Ligase Chain Reaction) NAAT, NASBA (Nucleic Acid Sequence Based Analysis) NAAT, PCR (Polymerase Chain Reaction) NAAT, SDA (Strand Displacement Amplification) NAAT, TMA (Transcription Mediated Amplification) Gram stain (Smear)
Haemophilus influenzae (invasive disease)	No	No	specimen = blood, serum, plasma, cerebrospinal fluid, pericardial fluid, pleural fluid, synovial fluid, peritoneal fluid, bone, etc	Culture independent diagnostic tests' (CIDT), like BioFire panel or BD MAX, results should be sent as 260373001^DETECTED^SCT with disease/organism-specific DNA LOINC codes OR a generic CIDT-LOINC code with organism-specific DNA SNOMED codes	Culture (organism = Haemophilus influenzae) H. influenzae Stain H. influenzae DNA H. influenzae Antigen
Hantavirus	No	No		Negative results are accepted for Hantavirus IgG/IgM Antibody	Hantavirus Antibody Hantavirus IgG Antibody Hantavirus IgM Antibody Hantavirus RNA
Hepatitis A	No	No			Hep A RNA Hep A IgM
Hepatitis B	No	No			Anti-Hbe Anti-HBs HBeAg HBsAg HBV DNA IgM anti-HBc

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Hepatitis C	No	No			anti-HCV HCV RNA RIBA
Hepatitis D (delta hepatitis)	No	No			Hep D Virus IgG Hep D Virus Antibody Hep D Virus RNA Hep D Virus IGM Antibody
Hepatitis E	No	No			Hep E RNA Hep E IgM Hep E IgG Hep E Total Antibody
HIV	No	HIV nucleotide sequencing results are accepted but not required		ALL CD4 results and ALL HIV viral loads (including <20 DETECTED AND <20 NOT DETECTED) are reportable; separate questionnaire will be distributed to collect additional information on tests performed in-house; newborn infant or child born to an HIV infected mother is reportable as perinatal exposure to HIV and any subsequent test results on every such exposed newborn infant or child until such time that either an HIV infection or a seroreversion status that is negative is confirmed;	CD4 Count CD4 Percent HIV-1 IA/EIA (Enzyme Immunoassay) HIV-1/2 IA/EIA (Enzyme Immunoassay) HIV-1/2 Antigen/Antibody (Antigen/Antibody) HIV-1 WB (Western Blot) HIV-1 IFA (Indirect Fluorescent Antibody) HIV-2 IA/EIA (Enzyme Immunoassay) HIV-2 WB (Western Blot) HIV-1/2 type differentiating (e.g. Multispot) HIV-1 Ab HIV-2 Ab HIV-1 RNA/DNA NAAT (Qualitative Viral Load) (NAAT=Nucleic Acid Amplification Test) HIV-1 p24 Antigen HIV-1 Culture HIV-2 RNA/DNA NAAT (Qualitative Viral Load) (NAAT=Nucleic Acid Amplification Test) HIV-2 Culture HIV-1 RNA/DNA NAAT (Quantitative Viral Load) (NAAT=Nucleic Acid Amplification Test) HIV-2 RNA/DNA NAAT (Quantitative Viral Load) (NAAT=Nucleic Acid Amplification Test) Rapid – Chembio Rapid – Clearview Rapid – Determine Rapid – Insti Rapid – Oraquick Rapid – Unigold Rapid – Other

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Influenza associated-hospitalization	No	No		Must be filtered for hospitalized inpatients ONLY; Date of hospital admission must be reported manually in ODRS; Culture independent diagnostic tests' (CIDT), like BioFire panel or BD MAX, results should be sent as 260373001^DETECTED^SCT with disease/organism-specific DNA LOINC codes OR a generic CIDT-LOINC code with organism-specific DNA SNOMED codes	Commercial Rapid Diagnostic Test
					Direct fluorescent antibody (DFA)
					Enzyme immunoassay (EIA)
					Immunohistochemistry (IHC)
					Indirect fluorescent antibody (IFA)
					Influenza A (2009 pandemic A) RT-PCR
					Influenza A (2009 pandemic H1) RT-PCR
					Influenza A (H1) RT-PCR
					Influenza A (H3) RT-PCR
					Influenza A (H5) RT-PCR
					Influenza A (H&) RT-PCR
					Influenza A RT-PCR
					Influenza A-Fluorescent Antibody
					Influenza B RT-PCR
					Influenza B-Fluorescent Antibody
					Rapid molecular
					RT-PCR
					Viral Culture
					Virus ID-HI
Influenza A Novel Virus and Influenza-associated pediatric mortality	Yes	No		Difficult to report these via ELR	Commercial Rapid Diagnostic Test
					Direct fluorescent antibody (DFA)
					Enzyme immunoassay (EIA)
					Immunohistochemistry (IHC)
					Indirect fluorescent antibody (IFA)
					Influenza A (2009 pandemic A) RT-PCR
					Influenza A (2009 pandemic H1) RT-PCR
					Influenza A (H1) RT-PCR
					Influenza A (H3) RT-PCR
					Influenza A (H5) RT-PCR
					Influenza A (H&) RT-PCR
					Influenza A RT-PCR
					Influenza A-Fluorescent Antibody
					Influenza B RT-PCR
					Influenza B-Fluorescent Antibody
					Rapid molecular
					RT-PCR
					Viral Culture
					Virus ID-HI

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Legionellosis - Legionnaires' Disease	No	No			Culture Legionella DFA Legionella DNA Legionella Antigen L. pneumophila Antigen Legionella Antibody Legionella IgM Legionella IgG Legionella Total Antibody L. pneumophila Antibody L. bozemaniae Antibody L. dumoffii Antibody L. gormanii Antibody L. longbeachae Antibody L. micdadei Antibody
Leprosy (Hansen disease)	No	No			Culture Leprosy Stain Leprosy DNA
Leptospirosis	No	No		Negative results are accepted for Leptospira IgG/IgM Antibody	Leptospira Antibody Leptospira antigen Leptospira DNA Leptospira IgG Antibody Leptospira IgM Antibody
Listeriosis	No	No	specimen = blood, serum, plasma, cerebrospinal fluid, pericardial fluid, pleural fluid, synovial fluid, peritoneal fluid, bone, placenta (in a pregnant woman), etc	Culture independent diagnostic tests' (CIDT), like BioFire panel or BD MAX, results should be sent as 260373001^DETECTED^SCT with disease/organism-specific DNA LOINC codes OR a generic CIDT-LOINC code with organism-specific DNA SNOMED codes	Culture (organism = Listeria monocytogenes) Listeria DNA Listeria Antigen Listeria Antibody Listeria IgM Listeria IgG Listeria Total Antibody Listeria Whole Genome Sequencing

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Lyme Disease	No	No	specimen = blood, serum, cerebrospinal fluid		Borrelia burgdorferi Antibody
					Borrelia burgdorferi IgA Antibody
					Borrelia burgdorferi IgG & IgM Antibody
					Borrelia burgdorferi IgG Antibody
					Borrelia burgdorferi IgG Antibody Western blot
					Borrelia burgdorferi IgM Antibody
					Borrelia burgdorferi IgM Antibody Western blot
					PCR
					Borrelia burgdorferi EIA
					Borrelia burgdorferi IFA
					Culture
Malaria	No	No	specimen = blood, serum		Smear
					Plasmodium DNA
					Plasmodium Antigen
Measles	yes				Culture
					Measles IgG & IgM Antibody
					Measles IgM Antibody
					PCR
Meningitis - aseptic/viral (see third sheet for list of most common organisms identified)	No	No	specimen = cerebrospinal fluid	Culture independent diagnostic tests' (CIDT), like BioFire panel or BD MAX, results should be sent as 260373001^DETECTED^SCT with disease/organism-specific DNA LOINC codes OR a generic CIDT-LOINC code with organism-specific DNA SNOMED codes	Culture
					Virus DNA/RNA
					Virus Antigen
					Virus Antibody
					Virus IgM
					Virus IgG
					Virus Total Antibody
Meningitis - bacterial (Not N. meningitidis) (see fourth sheet for list of most common organisms identified)	No	No	specimen = blood, serum, cerebrospinal fluid; only for meningitis patients		Culture
					Bacteria Stain
					Bacteria DNA
					Bacteria Antigen
					Bacteria Antibody
					Bacteria IgM
					Bacteria IgG
					Bacteria Total Antibody

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Meningococcal disease - Neisseria meningitidis	Yes	No	specimen = blood, serum, plasma, cerebrospinal fluid, pericardial fluid, pleural fluid, synovial fluid, peritoneal fluid, bone, etc	Culture independent diagnostic tests' (CIDT), like BioFire panel or BD MAX, results should be sent as 260373001^DETECTED^SCT with disease/organism-specific DNA LOINC codes OR a generic CIDT-LOINC code with organism-specific DNA SNOMED codes	Culture (organism = Neisseria meningitidis) N. meningitidis Stain N. meningitidis DNA N. meningitidis Antigen N. meningitidis A Antigen N. meningitidis B Antigen N. meningitidis C Antigen N. meningitidis Y Antigen N. meningitidis W Antigen
Mumps	No	No			Culture Mumps IgG & IgM Antibody Mumps IgM Antibody PCR
Pertussis	No	No		Culture independent diagnostic tests' (CIDT), like BioFire panel or BD MAX, results should be sent as 260373001^DETECTED^SCT with disease/organism-specific DNA LOINC codes OR a generic CIDT-LOINC code with organism-specific DNA SNOMED codes	Culture (organism = Bordetella pertussis) Pertussis DFA Pertussis DNA (PCR) Pertussis IgA Antibody Pertussis IgG & IgM Antibody Pertussis IgM Antibody
Plague	Yes	No			Culture Yersinia pestis Antibody Yersinia pestis antigen Yersinia pestis DNA
Poliomyelitis, including vaccine-associated cases	No	No			Culture Polio Virus 1 Antibody Polio Virus 1 Antibody Acute Polio Virus 1 Antibody Convalescent Polio Virus 2 Antibody Polio Virus 2 Antibody Acute Polio Virus 2 Antibody Convalescent Polio Virus 3 Antibody Polio Virus 3 Antibody Acute Polio Virus 3 Antibody Convalescent

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Psittacosis	No	No		Negative results are accepted for C. psittaci IgG/IgM Antibody	C. psittaci Antibody C. psittaci DNA C. psittaci IgA Antibody C. psittaci IgG Antibody C. psittaci IgM Antibody
Q fever	No	No		Negative results are accepted for ALL Q-Fever IgG/IgM Antibody	Culture Immunostain PCR Q-Fever Antibody Q-Fever antigen Q-Fever DNA Q-Fever IgG Antibody Q-Fever IgM Antibody Q-Fever Phase I Antibody Q-Fever Phase I IgA Antibody Q-Fever Phase I IgG Antibody Q-Fever Phase I IgM Antibody Q-Fever Phase II Antibody Q-Fever Phase II IgA Antibody Q-Fever Phase II IgG Antibody Q-Fever Phase II IgM Antibody
Rabies - human	Yes	No			Culture Microscopy Rabies virus Antibody Rabies virus antigen Rabies virus DNA
Rocky Mountain spotted fever (RMSF) -- becoming Spotted Fever Rickettsiosis in January 2014	No	No			Culture Immunostain PCR Rickettsia rickettsii Antibody Rickettsia rickettsii IgG Antibody Rickettsia rickettsii IgM Antibody Rickettsia parkeri IgG Ab Rickettsia parkeri IgM Ab Rickettsia species 364D IgG Ab Rickettsia species 364D IgM Ab Rickettsia aeschlimannii IgG Ab Rickettsia aeschlimannii IgM Ab Rickettsia africae IgG Ab Rickettsia africae IgM Ab Rickettsia australis IgG Ab

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Rocky Mountain spotted fever (RMSF) -- becoming Spotted Fever Rickettsiosis in January 2014	No	No			<i>Rickettsia australis</i> IgM Ab
					<i>Rickettsia conorii</i> IgG Ab
					<i>Rickettsia conorii</i> IgM Ab
					<i>Rickettsia heilongjiangensis</i> IgG Ab
					<i>Rickettsia heilongjiangensis</i> IgM Ab
					<i>Rickettsia Helvetica</i> IgG Ab
					<i>Rickettsia Helvetica</i> IgM Ab
					<i>Rickettsia honei</i> IgG Ab
					<i>Rickettsia honei</i> IgM Ab
					<i>Rickettsia japonica</i> IgG Ab
					<i>Rickettsia japonica</i> IgM Ab
					<i>Rickettsia marmionii</i> subspecies IgG Ab
					<i>Rickettsia marmionii</i> subspecies IgM Ab
					<i>Rickettsia massiliae</i> IgG Ab
					<i>Rickettsia massiliae</i> IgM Ab
					<i>Rickettsia sibirica</i> IgG Ab
					<i>Rickettsia sibirica</i> IgM Ab
					<i>Rickettsia sibirica mongolotimonae</i> IgG Ab
					<i>Rickettsia sibirica mongolotimonae</i> IgM Ab
Rubella (congenital and not congenital)	Yes (not congenital ONLY)	No			Culture
					PCR
					Rubella IgG & IgM Antibody
					Rubella IgM Antibody
Salmonellosis	No	No		Culture independent diagnostic tests' (CIDT), like BioFire panel or BD MAX, results should be sent as 260373001^DETECTED^SCT with disease/organism-specific DNA LOINC codes OR a generic CIDT-LOINC code with organism-specific DNA SNOMED codes	Culture
					Salmonella DNA
					Salmonella Antigen

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Severe Acute Respiratory Syndrome (SARS)	Yes	No			PCR SARS Antibody SARS RNA SARS-CoV Culture
Shigellosis	No	No		Culture independent diagnostic tests' (CIDT), like BioFire panel or BD MAX, results should be sent as 260373001^DETECTED^SCT with disease/organism-specific DNA LOINC codes OR a generic CIDT-LOINC code with organism-specific DNA SNOMED codes	Culture Shigella DNA Shigella Antigen Shigella Antibody Shigella IgM Shigella IgG Shigella Total Antibody Shigella Shiga Toxin
Smallpox	Yes	No			Culture Electron Microscopy PCR
Staphylococcal aureus - resistant to vancomycin (VRSA) or Staphylococcal aureus - intermediate resistance to vancomycin (VRSA)	No	Yes		Culture independent diagnostic tests' (CIDT), like BioFire panel or BD MAX, results should be sent as 260373001^DETECTED^SCT with disease/organism-specific DNA LOINC codes OR a generic CIDT-LOINC code with organism-specific DNA SNOMED codes	Culture S. aureus DNA S. aureus Antigen S. aureus Antibody S. aureus IgM S. aureus IgG S. aureus Total Antibody
Streptococcal - Group A -invasive	No	No	specimen = blood, serum, plasma, cerebrospinal fluid, pericardial fluid, pleural fluid, synovial fluid, peritoneal fluid, bone	Culture independent diagnostic tests' (CIDT), like BioFire panel or BD MAX, results should be sent as 260373001^DETECTED^SCT with disease/organism-specific DNA LOINC codes OR a generic CIDT-LOINC code with organism-specific DNA SNOMED codes	Culture (organism = Streptococcus pyogenes or Group A Streptococcus) Group A Strep DNA
Streptococcal - Group B - in newborn	No	No		age <= 3 months or 90 days; Culture independent diagnostic tests' (CIDT), like BioFire panel or BD MAX, results should be sent as 260373001^DETECTED^SCT with disease/organism-specific DNA LOINC codes OR a generic CIDT-LOINC code with organism-specific DNA SNOMED codes	Culture Group B Strep DNA Group B Strep Antigen

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Streptococcus pneumoniae - invasive disease	No	Yes	specimen = blood, serum, plasma, cerebrospinal fluid, pericardial fluid, pleural fluid, synovial fluid, peritoneal fluid, bone		Culture (organism = Streptococcus pneumoniae) S. pneumoniae DNA
Syphilis	No	No		Reverse sequence testing requires reporting of screening, RPR and RPR titer, and confirmatory FTA OR TPPA if discordant results are observed between screening and RPR tests; separate questionnaire will be distributed to collect additional information on tests performed in-house	CIA (Chemiluminescence Immunoassay) Darkfield Microscopy EIA (Enzyme Immunoassay) FTA (Fluorescent Treponemal Antibody) IgG IgG & IgM IgM MHA-TP (Microhemagglutination assay) Rapid Test RPR (Rapid Plasma Reagin) Syphilis Health Check TPHA (Treponema pallidum hemagglutination assay) TPPA (Treponema pallidum particle agglutination assay) VDRL (Venereal Disease Research Laboratory)
Tetanus	No	No			Culture (organism=Clostridium tetani) Tetanus Antibody Tetanus Antibody Acute Tetanus Antibody Convalescent Tetanus IgG & IgM Antibody Tetanus IgM Antibody Tetanus toxin Antibody Tetanus toxoid IgE Antibody
Toxic shock syndrome (TSS) (this is primarily a clinical diagnosis)	No	No			TSS Toxin 1
Trichinosis	No	No			Trichinella Antibody Trichinella IgA Antibody Trichinella IgG Antibody Trichinella IgM Antibody

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Reporting specifics for select diseases reportable by ELR

Disease Name	Class A, requires immediate phone call to local health department	Susceptibilities required*	specimen type specifics~	other specifics+	Reportable test name (can change if state/federal case definition or reporting requirements change)
Tuberculosis, including multi-drug resistant (MDR-TB)	No	Yes		organism = <i>Mycobacterium tuberculosis</i> complex, <i>Mycobacterium tuberculosis</i> , <i>Mycobacterium africanum</i> , <i>Mycobacterium bovis</i> , <i>Mycobacterium bovis</i> BCG, <i>Mycobacterium microti</i> , <i>Mycobacterium canettii</i> , <i>M. caprae</i> , <i>M. pinnipedii</i> , and <i>M. mungi</i>	Culture
					Nucleic acid amplification
					Smear
Tularemia	Yes	No	specimen = blood, serum, cerebrospinal fluid	Negative results are accepted for Tularemia IgG/IgM Antibody	F. tularensis Antibody
					F. tularensis DNA
					F. tularensis IgA Antibody
					F. tularensis IgG Antibody
					F. tularensis IgM Antibody
					Culture
Typhoid fever	No	No			Tularemia PCR
					Culture (Salmonella Typhi)
					S. Typhi DNA
Varicella	No	No			S. Typhi Antigen
					culture
					VZV DNA
					VZV IgG Antibody Convalescent
Vibriosis	No	No		Culture independent diagnostic tests' (CIDT), like BioFire panel or BD MAX, results should be sent as 260373001^DETECTED^SCT with disease/organism-specific DNA LOINC codes OR a generic CIDT-LOINC code with organism-specific DNA SNOMED codes	Direct fluorescent antibody (DFA)
					Culture
					Vibrio DNA
Viral Hemorrhagic Fever (VHF)	Yes	No			Culture
					Ebola Antibody
					Ebola Antigen
					Ebola IgG Antibody
					Ebola IgM Antibody
					Ebola RNA
					Electron Microscopy
					Lassa Antibody IgG

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Reporting specifics for select diseases reportable by ELR

Disease Name	Class A, requires immediate phone call to local health department	Susceptibilities required*	specimen type specifics~	other specifics+	Reportable test name (can change if state/federal case definition or reporting requirements change)
Viral Hemorrhagic Fever (VHF)	Yes	No			Lassa Antigen IgM Lassa Antigen Marburg Antibody Marburg Antigen Marburg IgG Antibody Marburg IgM Antibody PCR
Yellow fever	Yes		specimen = blood, serum, cerebrospinal fluid	Equivocal results are accepted	Yellow fever virus Antibody Yellow fever virus IgG Antibody Yellow fever virus IgM Antibody Yellow fever virus RNA
Yersiniosis	No	No		Culture independent diagnostic tests ¹ (CIDT), like BioFire panel or BD MAX, results should be sent as 260373001^DETECTED^SCT with disease/organism-specific DNA LOINC codes OR a generic CIDT-LOINC code with organism-specific DNA SNOMED codes	Culture Yersinia Stain Yersinia DNA Yersinia Antigen Yersinia Antibody Yersinia IgM Yersinia IgG Yersinia Total Antibody
* For all diseases where susceptibility results are NOT required, ODH will still accept and process any susceptibility results sent for ALL diseases					
~ All specimen types should be sent using a standardized SNOMED or HL7 code					
+ All HL7 messages should include standardized LOINC codes for tests performed and SNOMED codes for test results, unless performing a test with a numeric result value					

Most commonly reported CRE etiologies:	
•	<i>Citrobacter amalonaticus</i>
•	<i>Citrobacter braakii</i>
•	<i>Citrobacter diversus</i>
•	<i>Citrobacter europaeus</i>
•	<i>Citrobacter farmer</i>
•	<i>Citrobacter freundii</i>
•	<i>Citrobacter gillenii</i>
•	<i>Citrobacter koseri</i>
•	<i>Citrobacter murlinae</i>
•	<i>Citrobacter pasteurii</i>
•	<i>Citrobacter rodentium</i>
•	<i>Citrobacter sedlakii</i>
•	<i>Citrobacter youngae</i>
•	<i>Citrobacter Werkmanii</i>
•	<i>Citrobacter aerogenes</i>
•	<i>Citrobacter agglomerans</i>
•	<i>Citrobacter amnigenus</i>
•	<i>Citrobacter arachidis</i>
•	<i>Citrobacter asburiae</i>
•	<i>Enterobacter cancerogenus</i>
•	<i>Enterobacter cloacae</i>
•	<i>Enterobacter cowanii</i>
•	<i>Enterobacter dissolvens</i>
•	<i>Enterobacter gergoviae</i>
•	<i>Enterobacter helveticus</i>
•	<i>Enterobacter hormaechei</i>
•	<i>Enterobacter intermedius</i>
•	<i>Enterobacter kobei</i>
•	<i>Enterobacter ludwigii</i>
•	<i>Enterobacter mori</i>
•	<i>Enterobacter nimipressuralis</i>
•	<i>Enterobacter oryzae</i>
•	<i>Enterobacter pulveris</i>
•	<i>Enterobacter pyrinus</i>
•	<i>Enterobacter radicincitans</i>
•	<i>Enterobacter sakazakii</i>
•	<i>Enterobacter taylorae</i>
•	<i>Enterobacter turicensis</i>
•	<i>Echerichia coli</i>
•	<i>Klebsiella granulomatis</i>
•	<i>Klebsiella grimonti</i>
•	<i>Klebsiella michiganensis</i>
•	<i>Klebsiella oxytoca</i>
•	<i>Klebsiella ozaenae</i>
•	<i>Klebsiella pneumoniae</i>

Most commonly reported CRE etiologies:	
•	<i>Klebsiella quasipneumoniae</i>
•	<i>Klebsiella rhinoscleromatis</i>
•	<i>Klebsiella variicola</i>
•	<i>Morganella morganii</i>
•	<i>Proteus hauseri</i>
•	<i>Proteus mirabilis</i>
•	<i>Proteus myxofaciens</i>
•	<i>Proteus penneri</i>
•	<i>Proteus vulgaris</i>
•	<i>Providencia alcalifaciens</i>
•	<i>Providencia burhodogranariae</i>
•	<i>Providencia heimbachae</i>
•	<i>Providencia rettgeri</i>
•	<i>Providencia rustigianii</i>
•	<i>Providencia sneebia</i>
•	<i>Providencia stuartii</i>
•	<i>Raolultella terrigena</i>
•	<i>Raolultella electrica</i>
•	<i>Raolultella ornithinolytica</i>
•	<i>Raolultella planticola</i>
•	<i>Serratia aquatilis</i>
•	<i>Serratia entomophila</i>
•	<i>Serratia ficaria</i>
•	<i>Serratia fonticola</i>
•	<i>Serratia glossinae</i>
•	<i>Serratia grimesii</i>
•	<i>Serratia liquefaciens</i>
•	<i>Serratia marcescens</i>
•	<i>Serratia myotis</i>
•	<i>Serratia nematodiphila</i>
•	<i>Serratia odorifera</i>
•	<i>Serratia plymuthica</i>
•	<i>Serratia proteamaculans</i>
•	<i>Serratia quinivorans</i>
•	<i>Serratia rubidaea</i>
•	<i>Serratia symbiotica</i>
•	<i>Serratia ureilytica</i>
•	<i>Serratia vespertilionis</i>

Most commonly reported Aseptic/Viral Meningitis etiologies:
• Adenovirus
• Coxsackie A virus
• Coxsackie B virus
• Coxsackie virus
• Cytomegalovirus
• Dengue virus – reported as dengue
• Echovirus
• Enterovirus
• Epstein-Barr virus
• Herpes Simplex virus
• Influenza B virus
• JC Virus
• LaCrosse Virus – reported as LaCrosse virus disease
• Lymphocytic choriomeningitis virus
• Parechovirus
• Parvovirus
• Picornaviridae
• St. Louis Encephalitis virus – reported as SLE
• Varicella Zoster virus
• West Nile virus – reported as WNV

Most commonly reported Bacterial Meningitis etiologies:

- *Abiotrophia defectiva*
- *Acinetobacter baumannii*
- *Acinetobacter iwoffii*
- *Acinetobacter* sp.
- *Actinomyces odontolyticus*
- *Actinomyces* sp.
- *Alcaligenes xylosoxidans*
- *Bacillus* sp.
- *Bacteroides fragilis*
- *Brevundimonas vesicularis*
- *Candida albicans*
- *Candida parapsilosis*
- *Capnocytophaga* sp.
- *Citrobacter freundii*
- *Citrobacter koseri*
- *Citrobacter* sp.
- *Clostridium difficile*
- *Clostridium perfringens*
- *Coccidioides* sp.
- *Corynebacterium* sp.
- *Cronobacter sakazakii*
- *Cryptococcus neoformans*
- *Cryptococcus* sp.
- *Eikenella* sp.
- *Enterobacter aerogenes*
- *Enterobacter cloacae*
- *Enterococcus avium*
- *Enterococcus faecalis*
- *Enterococcus faecium*
- *Enterococcus raffinosus*
- *Enterococcus* sp.
- *Escherichia coli*
- *Eubacterium lentum*
- *Fusobacterium* sp.
- *Haemophilus influenzae* – reported as invasive H. flu
- *Haemophilus parainfluenzae*
- *Herellea* sp.
- *Histoplasma capsulatum*
- *Klebsiella oxytoca*
- *Klebsiella pneumoniae*
- *Klebsiella* sp.
- *Lactobacillus* sp.
- *Listeria monocytogenes* – reported as listeriosis
- *Micrococcus* sp.
- *Moraxella catarrhalis*

Most commonly reported Bacterial Meningitis etiologies:

- Mycoplasma sp.
- Neisseria lactamica
- Neisseria meningitidis – reported as meningococcal disease
- Neisseria sp.
- Pantoea agglomerans
- Pasteurella multocida
- Pasturella sp.
- Pediococcus sp.
- Peptostreptococcus anaerobius
- Propionibacterium acnes
- Propionibacterium sp.
- Proteus mirabilis
- Pseudomonas aeruginosa
- Pseudomonas fluorescens
- Pseudomonas sp.
- Ralstonia pickettii
- Serratia marcescens
- Serratia sp.
- Sphingomonas paucimobilis
- Staphylococcus aureus
- Staphylococcus capitis
- Staphylococcus epidermidis
- Staphylococcus hominis
- Staphylococcus schleiferi
- Staphylococcus sp.
- Staphylococcus warneri
- Stenotrophomonas maltophilia
- Streptococcus bovis
- Streptococcus constellatus
- Streptococcus intermedius
- Streptococcus milleri
- Streptococcus mitis
- Streptococcus mutans
- Streptococcus oralis
- Streptococcus pneumoniae – reported as ISP
- Streptococcus salivarius
- Streptococcus viridans
- Group A Strep. (Streptococcus pyogenes) – reported as invasive GAS
- Group B Strep. (Streptococcus agalactiae) – reported as newborn GBS in infants > 3 months
- Group C Strep.
- Group D Strep.
- Group F Strep.
- Streptococcus sp.