

# Labs Reportable via ELR

Note: Rows in bold are immediately reportable.

Condition	Pathogen	Tests	Send if results include	Also include	Qualifier
Acinetobacter (such as Carbapenem resistant Acinetobacter spp., residents of Hennepin or Ramsey county) (CRA)	any Carbapenem resistant <i>Acinetobacter</i> spp	Culture	Positive culture results demonstrating intermediate or resistance (MIC $\geq$ 8) to Doripenem, Imipenem, or Meropenem; or demonstrates production of carbapenemase by a recognized method (e.g. Modified Hodge Test or PCR)	Also include antibiotic susceptibility results and carbapenemase testing method and results	Patient is a resident of Hennepin or Ramsey County
African tick bite fever	<i>Rickettsia africae</i>	Cultures, PCR, Serology (IgG, IgM), total antibody, IHC	Non-negative test results.		
Amebiasis (Entamoeba Histolytica/Dispar)	<i>Entamoeba histolytica</i>	Microscopy, Serology, EIA, PCR (for example, Biofire)	Positive specimen for <i>Entamoeba histolytica</i> , or <i>Entamoeba histolytica/dispar</i>	Include the manufacturer/method, via ELR.	Source: Stool, Serum
Anaplasmosis (Anaplasma sp.)	any <i>Anaplasma</i> sp.	Cultures, PCR, Serology (IgG, IgM) total antibody, blood smears, IHC  Blood smears might be listed as "inclusions/morulae"	Non-negative test results.		
<b>Anthrax</b>	<b><i>Bacillus anthracis</i> and <i>Bacillus cereus</i> with anthrax toxin, or <i>Bacillus cereus</i> biovar <i>anthracis</i></b>	<b>Culture, PCR, serology, any other identification method.</b>	<b>All results</b>	<b>Report all requests for testing.</b>	
Arboviral Disease (endemic)	Including but not limited to: West Nile Virus (WNV); La Crosse encephalitis and other California serogroup viruses; western equine encephalitis (WEE); eastern equine encephalitis (EEE); St. Louis encephalitis (SLE) virus; Powassan (POW) virus; Jamestown Canyon virus (JCV); Cache Valley virus; Colorado tick fever; Japanese encephalitis virus; Venezuelan equine encephalitis	Culture, PCR, Serology (IgM, IgG), IHC, PRNT	Non negative results		

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Babesiosis (Babesia sp.)	any <i>Babesia</i> sp.	Cultures, PCR, Serology (IgG, IgM) total antibody, blood smears, IHC  Blood smears might be listed as "inclusions in erythrocytes" or "parasites in red blood cells"	Non-negative test results.		
Blastomycosis	<i>Blastomyces dermatitidis</i>	Culture, PCR, Serology (IgG, IgM), histopathology, cytology/cytopathology, urine, serum or other fluid antigen	Non negative results		Source: Blood, Urine, other body fluid, tissue biopsy or aspirate
<b>Botulism</b>	<b><i>Clostridium botulinum</i></b>	<b>Culture, PCR, Serology, any other identification method.</b>	<b>Non negative results</b>		<b>Source: Serum, Stool</b>
<b>Brucellosis</b>	<b>all <i>Brucella</i> spp.</b>	<b>Culture, PCR, Serology, any other identification method.</b>	<b>Non negative results</b>		
Campylobacteriosis (Campylobacter spp.)	<i>Campylobacter</i> spp.	Culture, PCR, EIA by any method	Positive results	Report positive antibiotic susceptibility results.  Include the manufacturer/method, via ELR.	
<i>Candida auris</i>	<i>Candida auris</i>	Culture			
Candidemia (Candida spp., blood isolates only, residents of 7-County Metro)	<i>Candida</i> spp.	Culture	Positive results	Include any positive antibiotic susceptibility results	Patient is a resident of Anoka, Carver, Dakota, Hennepin, Ramsey, Scott or Washington County  Source: Blood

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Cat Scratch Disease	<i>Bartonella</i> spp.	Culture, PCR, Serology, any other identification method.	Non negative results		
Chancroid (Haemophilus Ducreyi)	<i>Haemophilus ducreyi</i>	Culture	Positive results		
Chikungunya virus	<i>Chikungunya</i>	Culture, PCR, Serology (IgG, IgM), PRNT, IHC	Non negative results		
Chlamydia Trachomatis Infection	<i>Chlamydia trachomatis</i>	Culture, NAAT, DNA probe, EIA, DFA, direct immunofluorescence, nucleic acid hybridization	Positive results		
<b>Cholera</b>	<b><i>Vibrio cholerae</i></b>	<b>Culture, PCR, any other method</b>	<b>Positive results</b>	<b>Include the manufacturer/method, via ELR.</b>	
<i>Clostridium difficile</i> Infection	<i>Clostridium difficile</i>	Culture, PCR; C. difficile toxin or molecular assay performed on stool specimen	Positive results		Patient is a resident of Benton, Morrison, Olmsted, Stearns and Todd Counties
<b>COVID-19</b>	<b>severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2)</b>	<b>PCR, Serology (IgG, IgM)</b>	<b>All results</b>		
Cronobacter (infants under 1 year of age)	<i>Cronobacter sakazakii</i> , formerly <i>Enterobacter sakazakii</i>	Culture	Positive results	Include the manufacturer/method, via ELR.	Patient under 1 year of age
Cryptosporidiosis (Cryptosporidium spp.)	<i>Cryptosporidium</i> spp	PCR, EIA, DFA, Microscopy, rapid test	Positive and equivocal results	Include the manufacturer/method, via ELR.	
Cyclosporiasis (Cyclospora cayetanensis)	<i>Cyclospora cayetanensis</i>	Microscopy, PCR (often Biofire)	Positive results	Include the manufacturer/method, via ELR.	
Dengue	<i>Dengue</i> virus	Culture, PCR, Serology (IgG, IgM), PRNT, IHC, Antigen	Non negative results		
<b>Diphtheria (Corynebacterium Diphtheriae)</b>	<b><i>Corynebacterium diphtheriae</i></b>	<b>Culture</b>	<b>Positive results</b>	<b>Report all requests for testing.</b>	

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Diphyllobothrium Latum Infection	<i>Diphyllobothrium latum</i>	Any test	Positive results	Include the manufacturer/method, via ELR.	
Ehrlichiosis (any Ehrlichia sp.)	any <i>Ehrlichiosis</i> sp	Cultures, PCR, Serology (IgG, IgM) total antibody, blood smears, IHC  Blood smears might be listed as "inclusions/morulae"	Non-negative test results.		
Encephalitis (caused by viral agents)	Various viral pathogens	Culture	Positive results		Source: CSF
Enteric E. coli Infection (such as enteroaggregative E. coli)	EAEC: Enteroaggregative <i>E. coli</i>	Culture, PCR by any method	Positive results	Include the manufacturer/method, via ELR.	
Enteric E. coli Infection (such as enteroinvasive E. coli)	EIEC: Enteroinvasive <i>E. coli</i>	Culture, PCR; Tests for EIEC or EIEC virulence factors (eg ipaH/invasion plasmid antigen) by any method	Positive results	Include the manufacturer/method, via ELR.	
Enteric E. coli Infection (such as enteropathogenic E. coli)	EPEC: Enteropathogenic <i>E. coli</i>	Culture, PCR; EPEC or EPEC virulence factors (e.g., bfp/bundle forming pilus and eae/intimin) by any method	Positive results	Include the manufacturer/method, via ELR.	

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Enteric E. coli Infection (such as enterotoxigenic E. coli)	ETEC: Enterotoxigenic <i>E. coli</i>	Culture, PCR; ETEC or ETEC virulence factors (e.g., estA/heat stable enterotoxin or eltB/heat labile enterotoxin) by any method	Positive results	Include the manufacturer/method, via ELR.	
Enteric E. coli Infection (such as other enterohemorrhagic (Shiga toxin-producing) E. coli)	STEC/VTEC/EHEC: Enterohemorrhagic (Shiga toxin-producing/ Verotoxin-producing) <i>E. coli</i>	Culture, PCR; Tests for shiga toxin by any method	Positive results.	Positive tests for Shiga toxin.  Include the manufacturer/method, via ELR.	
Enterobacteriaceae (such as Carbapenemresistant Enterobacteriaceae spp.) (CRE)	Carbapenem resistant <i>Enterobacteriaceae</i> spp., including but not limited to <i>E. coli</i> , <i>A. baumannii</i> , <i>Enterobacter</i> spp., <i>Klebsiella</i> spp., <i>Serratia</i> spp., <i>Citrobacter</i> spp., <i>Morganella</i> spp., <i>Providencia</i> spp., <i>Acinetobacter</i> spp., <i>Proteus</i> spp., <i>Pseudomonas</i> spp., <i>Escherichia fergusonii</i> , <i>Hafnia alvei</i> , <i>Kluyvera ascorbata</i> , <i>Leclercia adecarboxylata</i> , <i>Pantoea agglomerans</i> , <i>Raoultella ornithinolytic</i> , <i>Raoultella planticola</i> , <i>Chryseobacterium indologenes</i> , <i>Myroides</i> spp., <i>Stenotrophomonas maltophilia</i>	Culture demonstrating intermediate or resistance to erapenem (MIC $\geq$ 2), doripenem, imipenem, or meropenem (MIC $\geq$ 4).	Positive results; or demonstrates production of carbapenemase by a recognized method (e.g. Modified Hodge Test or PCR)	Also include antibiotic susceptibility results and carbapenemase testing method and results	

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Free living amebic infection	including at least <i>Acanthamoeba</i> spp, <i>Naegleria fowleri</i> , <i>Balamuthia</i> spp, <i>Sappinia</i> spp	Microscopy, PCR, DFA	Positive results	Include the manufacturer/method, via ELR.	Source: CSF, Biopsy specimens (brain tissues, skin, cornea), Cornea scrapings
Giardiasis (Giardia lamblia)	<i>Giardia lamblia</i>	Microscopy, Serology, DFA, EIA, PCR, rapid test	Positive results	Include the manufacturer/method, via ELR.	
Glanders	<i>Burkholderia mallei</i>	Culture, PCR, Serology, any other identification method	Non negative results		
Gonorrhea (Neisseria Gonorrhoeae)	<i>Neisseria gonorrhea</i>	Culture, NAAT, DNA probe, EIA, DFA	Positive results	Antibiotic susceptibility results	
Group A Streptococcal Disease - Streptococcus pyogenes	<i>S. pyogenes</i> , <i>Streptococci</i> Group A	Culture, nucleic acid amplification (eg - PCR, Biofire, Verigene)	Positive results		Source: Blood, CSF, joint fluid, pleural fluid, peritoneal fluid, pericardial fluid, bone, or from a internal body or tissue site (brain, heart, kidney, liver, lymph node, ovary, pancreas, spleen, vitreous fluid, vascular tissue), from any other normally sterile site, or surgically obtained muscle biopsy/tissue, or from a wound  For specimens from wounds to be reportable, there must also necrotizing faciitis or stretococcal toxic shock syndrome present.

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Group B Streptococcal disease (Streptococcus Agalactiae)	<i>S. agalactiae</i> , <i>Streptococci</i> Group B	Culture, nucleic acid amplification (eg - PCR, Biofire, Verigene)	Positive results		Source: Blood, serum, urine, CSF, joint fluid, pleural fluid, peritoneal fluid, pericardial fluid, bone, or from a internal body or tissue site (brain, heart, kidney, liver, lymph node, ovary, pancreas, spleen, vitreous fluid, vascular tissue), or from placenta or amniotic fluid  For specimens from a placenta or amniotic fluid to be reportable, it must be accompanied by a fetal death.
Haemophilus Influenzae Disease (all invasive diseases)	<i>Haemophilus influenzae</i>	Culture, nucleic acid amplification (eg - PCR, Biofire, Verigene)	Positive results		Source: Blood, CSF, pleural fluid, peritoneal fluid, pericardial fluid, bone, joint fluid, internal body site (lymph node, brain, heart, liver, spleen, vitreous fluid, kidney, pancreas, ovary, or vascular tissue), or placenta or amniotic fluid when accompanied by a fetal death
Hantavirus Infection	Hantavirus spp.	PCR, Serology (IgG, IgM)	Non negative results	Report all requests for testing.	Source: Blood, lung biopsy, BAL
Hepatitis: Hepatitis A	Hepatitis A virus	Serology (IgM), RNA	Positive results: anti-HAV IgM  All HAV RNA results.		Source: Blood, Stool, Saliva
Hepatitis: Hepatitis B	Hepatitis B virus	Serology (HBsAg, HBeAg, anti-HBc IgM), DNA, genotyping, sensitivity testing	Positive results for HBeAg, anti-HBc IgM  Positive HBsAg if no negative neutralization.  All HBV DNA, sensitivity, and genotype results.	If there are positive results, report: HBsAg, HBeAg, anti-Hbe, antiHBc IgM, anti-HBc total, HBV DNA, and HBV genotype	

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Hepatitis: Hepatitis C	Hepatitis C virus	Serology (anti-HCV), RNA, genotype, sensitivity testing	Positive results: anti-HCV.  All HCV RNA, sensitivity, and genotype results.		
Hepatitis: Hepatitis D	Hepatitis D virus	Serology (anti-HDV, anti-HDV IgM, anti-HDV IgG), RNA	Positive results: anti-HDV, anti-HDV IgM, anti-HDV IgG.  All HDV RNA results.		
Hepatitis: Hepatitis E	Hepatitis E virus	Serology (anti-HEV, anti-HEV IgM, anti-HEV IgG), RNA	Positive results: anti-HEV, anti-HEV IgM, anti-HEV IgG.  All HEV RNA results.		Source: Blood, Stool, Saliva
Histoplasmosis	<i>Histoplasma</i> spp.	Culture, PCR, Serology (IgG, IgM), histopathology, cytology/cytopathology, antigens from urine, serum or other fluid	Positive results: <i>Histoplasma species</i> from Culture, PCR, Serology (IgG, IgM), histopathology, cytology/cytopathology, antigens from urine, serum or other fluid		Source: Blood, Urine, other body fluid, tissue biopsy or aspirate
Human Immunodeficiency Virus (HIV) Infection (including Acquired Immunodeficiency Syndrome) (AIDS)	HIV	EIA, Western Blot, IFA, Serology (p24 antigen, OTHERS?), PCR, bDNA, CD4 counts, CD4 percents	Non-negative results from: HIV-1 IA, HIV-1/2 IA, HIV-1/2 Ag/Ab, HIV-1 WB, HIV-1 IFA, HIV-2 IA, HIV-2 WB, HIV-1 P24 Antigen, HIV-1 Culture, HIV-2 Culture, including rapid tests  All results, <b>including undetectibles and non-detectibles</b> from: HIV RNA/DNA NAAT (Qual), HIV-2 RNA/DNA NAAT (Qual), HIV-1 RNA/DNA NAAT (Quantitative viral load), HIV-2 RNA/DNA NAAT (Qualitative viral load), HIV-1/2 Type-differentiating (eg, Multispot), CD4 counts, CD4 percents, (RESISTANCE TESTING)	If tests are positive, include all results (positive and negative) for: HIV Proviral DNA, HIV RNA NASBA, HIV1/HIV2 culture results	
Influenza (unusual case incidence, critical illness, or laboratory confirmed cases)	Influeza viruses, types A and B	Culture, PCR, Serology, Influenza rapid test	Positive results	If a rapid test was used, include the name of the test.	Patient is hospitalized or died with influenza reported
Kingella spp. (invasive only)	<i>Kingella</i> spp	Culture	Positive results		Source: Blood, CSF, joint fluid, pleural fluid, peritoneal fluid, bone, internal body or tissue site

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Lead		All methods, including atomic absorption, ASV, mass spec, graphite furnace	All results	Specify venous or capillary	Source: Blood
Legionellosis (Legionella spp.)	<i>Legionella</i> spp.	Culture, PCR, DFA, IHC, Urine antigen	Positive results		
Leprosy (Hansen's Disease)	<i>Mycobacterium leprae</i>	PCR, Acid fast bacillus smear	Skin biopsy AFB positive, or Positive PCR result for M. leprae		Source: Skin biopsy
Leptospirosis	<i>Leptospira</i> species	Culture, PCR, Serology (IgG, IgM)	Non negative results		Source: Blood, Urine
Listeriosis	<i>Listeria monocytogenes</i>	Culture, PCR by any method	Positive results	Include the manufacturer/method, via ELR.	
Lyme disease (Borrelia burgdorferi) or any Borrelia sp.	<i>Borrelia burgdorferi</i> , any <i>Borrelia</i> spp.	Culture, PCR, Western Blot IgG and IgM, Serology	Positive results	If Western blot is positive, send any ELISA/EIA or IFA results.  Band data as available	
Malaria (Plasmodium spp.)	any <i>Plasmodium</i> sp.	PCR, blood smear, rapid test (RDT)	Non-negative test results.		
<b>Measles (Rubeola)</b>	<b><i>Measles morbillivirus</i></b>	<b>Serology (IgM), PCR</b>	<b>Positive results</b>		
Melioidosis	<i>Burkholderia pseudomallei</i>	Culture, PCR, Serology (IgG, IgM), any other identification method.	Non negative results		
Meningitis - other bacterial	Bacterial, not otherwise reportable	Culture	Positive results		Source: CSF
Meningitis (caused by viral agents or aseptic)	Clinical diagnosis or viral pathogen.	Culture, PCR	Positive results		Specimen: CSF Viral agent Source: CSF
<b>Meningococcal Disease (Neisseria Meningitidis) (all invasive diseases)</b>	<b><i>Neisseria meningitidis</i></b>	<b>Culture, nucleic acid amplification eg - PCR, Biofire, Verigene</b>	<b>Positive results</b>		<b>Source: Blood, CSF, pleural fluid, peritoneal fluid, pericardial fluid, bone, joint fluid, internal body site (lymph node, brain, heart, liver, spleen, vitreous fluid, kidney, pancreas, ovary, or vascular tissue) or other normally sterile site</b>
<b>MERS</b>	<b>MERS-CoV</b>	<b>PCR</b>	<b>Positive results</b>		

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Mumps	<i>Mumps rubulavirus</i>	Serology (IgM), PCR	Positive results		
Neonatal Sepsis (less than 7 days after birth) (bacteria isolated from a sterile site, excluding contaminants)	Bacteria isolated from a sterile site	Culture, nucleic acid amplification (eg - PCR, Biofire, Verigene)	Any positive result		<p>Specimen collected less than 7 days after birth.</p> <p>Source: Blood, CSF, Pleural Fluid</p> <p>Exclude the following contaminants: All Aerococcus, All Bacillus, All Burkholderia, All Capnocytophago, All Corynebacterium ("Diphtheroids"), All Cupriavidus ("Ralstonia"), All Flavimonas, All Gemella, All Granulicatella, All Haemophilus (other than H. influenzae), All Lactobacillus, All Micrococcus (including Bracybacterium), All Morganella, All Mycobacterium (other than tuberculosis), All Neisseria (other than N. meningitidis), All Ochrobactrum, All Paenibacillus, All Prevotella, All Propionibacterium, All Roseomonas, All Staphylococcus (other than S. aureus), All Stenotrophomonas, All Stomatococcus, All Tatumella</p>
<b>Orthopox Virus</b>	<b><i>Orthopoxvirus</i> spp (Pox viruses, includes monkeypox, cowpox)</b>	<b>Culture, PCR, Serology, any other identification method.</b>	<b>Positive results</b>		
Pertussis	<i>Bordetella bronchiseptica, Bordetella holmesii, Bordetella parapertussis</i>	Culture, PCR	Positive results		
Pertussis (Bordetella Pertussis)	<i>Bordetella pertussis</i>	Culture, PCR, Serology, DFA	Non negative results		
<b>Plague</b>	<b><i>Yersina pestis</i></b>	<b>Culture, PCR, Serology, any other identification method.</b>	<b>Non negative results</b>		
<b>Poliomyelitis</b>	<b><i>Poliovirus</i></b>	<b>Serology</b>	<b>Positive results for poliovirus (P1, P2, or P3)</b>		

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Pseudomonas aeruginosa (such as Carbapenem-resistant Pseudomonas aeruginosa, resident of Hennepin or Ramsey County) (CRPA)	Carbapenem-resistant <i>Pseudomonas aeruginosa</i>	Culture	Positive culture results demonstrating intermediate or resistance (MIC $\geq$ 8) to Doripenem, Imipenem, or Meropenem; or demonstrates production of carbapenemase by a recognized method (e.g. Modified Hodge Test or PCR)	If positive and available, report antibiotic susceptibility results and carbapenemase testing method and results	Patient is resident of Hennepin or Ramsey County
Psittacosis	<i>Chlamydophila psittaci</i>	Culture, PCR, Serology	Non negative results		Source: Blood, sputum, pleural fluid, tissue
<b>Q Fever</b>	<b><i>Coxiella burnetii</i></b>	<b>Culture, PCR, Serology, any other identification method.</b>	<b>Non negative results</b>		
RSV (laboratory confirmed cases)	<i>Human orthopneumovirus</i>	Culture, PCR, RSV rapid test	Positive results		Patient is a resident of Anoka, Carver, Dakota, Hennepin, Ramsey, Scott or Washington County and patient is hospitalized or died with RSV reported
<b>Rubella and Congenital Rubella Syndrome</b>	<b><i>Rubella virus</i></b>	<b>Serology (IgM), PCR</b>	<b>Positive results</b>		
Salmonellosis (including Typhoid) (Salmonella spp.)	<i>Salmonella</i> spp	Culture, PCR by any method	Positive results	Report positive antibiotic susceptibility results.  Include the manufacturer/method, via ELR.	
<b>Severe Acute Respiratory Syndrome (SARS)</b>	<b>SARS-CoV</b>	<b>Serology, Culture, PCR</b>			
Shigellosis	<i>Shigella</i> spp.	Culture, PCR by any method	Positive results	Include the manufacturer/method, via ELR.	
Spotted Fever Rickettsiosis (Rickettsia spp.)	any <i>Rickettsia</i> sp.	Cultures, PCR, Serology (IgG, IgM), total antibody, IHC	Non-negative test results.		

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Staphylococcus Aureus (such as Death or critical illness due to community-associated Staphylococcus aureus in a previously healthy individual)	<i>Staphylococcus aureus</i>	Culture, nucleic acid amplification (eg - PCR, Biofire, Verigene)	Positive results	Report positive antibiotic susceptibility results.	
Staphylococcus Aureus (such as MRSA or MSSA invasive - metro area only)	Invasive <i>Staphylococcus aureus</i> - Methicillin-resistant (MRSA) and Methicillin-susceptible (MSSA)	Culture, nucleic acid amplification (eg - PCR, Biofire, Verigene)	Positive results with resistance to Oxacillin	Report positive susceptibility results	Patient is resident of Hennepin or Ramsey County  Source: Blood, CSF, joint fluid, pleural fluid, peritoneal fluid, bone, internal body or tissue site, nasal swab, Skin/soft tissue
Staphylococcus aureus (such as Vancomycin-Intermediate Staphylococcus Aureus) <b>(VISA)</b> /Staphylococcus Aureus (such as Vancomycinresistant Staphylococcus aureus) <b>(VRSA)</b>	Vancomycin-intermediate or resistant <i>Staphylococcus Aureus</i>	Culture, nucleic acid amplification (eg - PCR, Biofire, Verigene)	Positive culture results with intermediate resistance or resistance (any MIC >=4) to Vancomycin	Report positive susceptibility results	
Streptococcus Pneumoniae	<i>S. pneumoniae, Pneumococcal</i>	Culture, Urine antigen, CSF antigen, nucleic acid amplification (eg - PCR, Biofire, Verigene)	Positive results		Source: Blood, CSF, serum, urine, joint fluid, pleural fluid, peritoneal fluid, pericardial fluid, bone, or from a internal body or tissue site (brain, heart, kidney, liver, lymph node, ovary, pancreas, spleen, vitreous fluid, vascular tissue)
Syphilis (Treponema pallidum)	<i>Treponema pallidum</i>	FTA, TPPA, Serology (IgG, IgM), EIA, RPR, USR, VDRL	Non negative or reactive results	include all results for: CSF, MHA-TP, PK-TP, STS	
Toxoplasmosis	<i>Toxoplasma gondii</i>	PCR, Serology (IgG, IgM)	Non negative results		Source: Blood
Trichinosis	<i>Trichinella spiralis</i>	Culture, PCR, Serology, Immunoblotting	Non negative results		Source: Blood, Muscle biopsy

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Tuberculosis (Mycobacterium Tuberculosis Complex)	<i>Mycobacterium tuberculosis</i> complex - this includes 10-13 species, including: <i>Mycobacterium tuberculosis</i> , <i>M. bovis</i> , <i>M. africanum</i> , <i>M. microti</i> , <i>M. canettii</i> , <i>M. caprae</i> , <i>M. pinnipedii</i> , <i>M. suricattae</i> , <i>M. mungi</i> , <i>M. orygis</i>	Culture, PCR, NAAT	Positive results	Antibiotic susceptibility results.	
<b>Tularemia</b>	<b><i>Francisella tularensis</i></b>	<b>Culture, PCR, Serology, any other identification method.</b>	<b>Non negative results</b>		
Typhus (Rickettsia spp.)	<i>Rickettsia typhi</i> , <i>Rickettsia prowazekii</i> , <i>Orientia tsutsugamushi</i> , or "Typhus Group"	Culture, PCR, Serology (IgG, IgM, total antibody), IHC	Non negative results	Include titer and species.	
Vaccinia	<i>Vaccinia virus</i>	PCR	Positive results		
Coccidioidomycosis (Valley Fever)	<i>Coccidioidomycosis immitis</i>	Culture, PCR, Serology (IgG, IgM), histopathology, cytology/cytopathology	Positive results		Source: Blood, other body fluid, tissue biopsy or aspirate
Varicella-zoster Disease	<i>Varicella zoster virus</i>	Culture, PCR, DFA, Serology (IgM)	Positive results		
<i>Vibrio</i> spp.	<i>Vibrionaceae</i> spp., <i>Photobacterium damsealae</i> , <i>Grimontia hollisae</i>	Culture, PCR by any method	Positive results	Include the manufacturer/method, via ELR.	
Yellow Fever	<i>Yellow fever virus</i>	Culture, PCR, Serology (IgM, IgG), IHC, PRNT	Non negative results		
Yersiniosis, enteric (Yersinia spp.)	<i>Yersinia</i> spp.	Culture, PCR by any method	Positive results	Include the manufacturer/method, via ELR.	
Zika virus	<i>Zika virus</i>	Culture, PCR, Serology (IgM, IgG), IHC, PRNT	All results	Pregnancy status	Source: Blood, Body Fluid, Tissue

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Note that for investigations of some of these diseases follow up will include inquiries about labs including but not limited to CBCs, metabolic/liver panels, and CSF values such as WBC, RBC, protein and glucose.

Infectious Disease Epidemiology, Prevention and Control Division 651-201-5414 - TDD/TTY 651-201-5797 - [www.health.state.mn.us](http://www.health.state.mn.us)

**Note: Do not consider the above list provided to be the complete list of all diseases and conditions that should be reported to MDH. It is a working list which the trading partners can use for reference for communicable disease reporting through the MDH ELR program.**

