



MDL Lab Instruction

What you should receive:

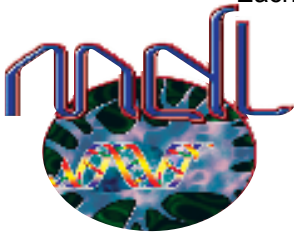
1. Pre-paid FedEx envelope.
2. 1 PDF lab requisition form with lab values already checked off via email from the office.
3. 1 Brown rectangle lab kit (PCR/ELISA).

What you need to do:

1. Fill out the lab requisition form, including credit card information and or insurance information. Your insurance will be billed at first attempt; if your insurance is not eligible you will be billed \$225 from the lab directly via the credit card you entered.
2. Schedule a time with your local lab to get your blood drawn. You can also call your primary doctor and have them schedule a time for them to draw it at their office or lab.
3. Call ahead to confirm the blood draw, there may be a small fee charged for it. Ask the lab to bill your insurance for the blood draw if possible, if not pay the lab directly.
4. Bring all of the test kits and the pre-paid FedEx envelope with you to the lab.
5. Make sure all the test kit vials are filled by the phlebotomist.
6. Write your full name and date on the blood vials.
7. Make sure the blood is mailed back to the lab as soon as the blood draw is complete. The blood needs to be received by the lab **within two days**. Please place the specimen in the FedEx envelope you received and bring to FedEx ASAP. The blood doesn't need to be centrifuged right away; the lab will do this as soon as they receive it.
8. The patient is responsible for shipping the blood back to the lab, not the phlebotomist.

What you need to do next:

1. Dr Justin will go over your lab results with you as soon as they are in. We typically receive results within 1-2 weeks.
2. Make sure you have an appointment scheduled with the Dr Justin to review the results.



Each MDL tube can store 8.5ml's of fluid. So for each MDL tube we can run 8 different tests

MEDICAL DIAGNOSTIC LABORATORIES, L.L.C.

2439 Kuser Road • Hamilton, NJ 08690-3303

(609) 570-1000 • Fax (609) 570-1050

Toll Free (877) 269-0090

www.mdlab.com

A MEMBER OF GENESIS BIOTECHNOLOGY GROUP

Test Requisition Form

19 markers

-1 PCR/Ellisa Kits (2 vials each)

Ordering Physician/Laboratory

(Required: Include the ordering physician's first & last name, NPI, practice name, complete address, phone number and fax number.)

Dr. Justin Marchegiani
1477828408

Phone: 512-535-1817
Fax: 707-227-1529

Just In Health
912 South Capital of Texas Highway #170
Austin TX, 78746

(Only fax results, no hard copies sent to office, Please.)

Physician to receive additional result report:

Physician's Signature: *Dr. Justin Marchegiani*

Date:

Patient Information (Please Print)

Name (Last, First) (Required):

In Care of:

Patient Address:

City: State: Zip:

Gender (Required): Female Male

Date of Birth (Required):

Patient SS#: Patient ID#:

Phone Number:

Billing Information (Please include a copy of the front & back of card.)

Patient Billing
 Insurance Billing

Relation (Required):

Self
 Spouse
 Dependant

ICD-10 Codes (Required):

Please provide ALL applicable diagnosis codes.

K59.9 B96.89
R53.81 K31.89

Primary Insurance Carrier:

Insured's Name (if not patient):

Insured's SS#: Insured's DOB:

Claims Address:

Medicare, Medicaid or Policy ID#:

Employer/Group Name: Group#:

Specimen Information

Date Collected (Required): Specimen Source:

UroSwab® URINARY TRACT INFECTIONS by Real-Time PCR unless otherwise specified Male & Female - Urine Specimens Only

- 153 *Enterococcus faecalis*
- 154 *Enterococcus faecium*
- 141 *Escherichia coli*
- 127 Group B Streptococcus (GBS)
- 137 Group B Streptococcus (GBS) Antibiotic Resistance**(#127 Req.) Only check if patient is penicillin-allergic and erythromycin/clindamycin resistance determination is required for alternate treatment.
- 172 *Klebsiella* species (Reflex to Speciation by Pyrosequencing)
- 146 *Proteus mirabilis*
- 174 *Pseudomonas aeruginosa*
- 151 *Staphylococcus saprophyticus*
- 176 Urinary Pathogens Antibiotic Resistance [*E. coli*, *Klebsiella* species, *P. mirabilis*: amoxicillin-clavulanic acid, cephalothin (cephalexin), trimethoprim-sulfamethoxazole, nitrofurantoin, ciprofloxacin, fosfomycin. *Enterococcus faecalis*, *Enterococcus faecium*: ampicillin, nitrofurantoin, ciprofloxacin, fosfomycin, doxycycline, linezolid]**(141, 153, 154, 172, or 146 Req.)

Test Selection

OneSwab® SKIN & SOFT TISSUE INFECTIONS (SSTI) by Real-Time PCR unless otherwise specified

To order panel components individually, select tests beneath the panel.

369 *Acinetobacter baumannii*

366 Skin & Soft Tissue Infections (SSTI) Panel [*B. fragilis*, *E. faecalis*, *E. coli*, GAS, GBS, *Klebsiella* species, *Prevotella* Groups 1 & 2, *P. mirabilis*, *P. aeruginosa*, *S. aureus*, MRSA, Community Associated MRSA (CA-MRSA)]

- 125 *Bacteroides fragilis*
- 153 *Enterococcus faecalis*
- 141 *Escherichia coli*
- 1112 Group A Streptococcus
- 127 Group B Streptococcus (GBS)
- 172 *Klebsiella* species (Reflex to Speciation by Pyrosequencing)
- 362 *Prevotella* species Group 1 (*P. bivia*, *P. disiens*, *P. intermedia*, *P. melaninogenica*)
- 363 *Prevotella* species Group 2 (*P. corporis*, *P. albensis*)
- 146 *Proteus mirabilis*
- 174 *Pseudomonas aeruginosa*
- 1118 *Staphylococcus aureus* with methicillin resistance (MRSA) by Conventional PCR
- 1119 Panton-Valentine Leukocidin (PVL) DNA (Type IV + #1118 Req.)
[Community-Associated MRSA = Type IV MRSA+ and PVL+]

367 SSTI Panel Antibiotic Resistance [*Enterococcus faecalis*, *E. coli*, GAS, GBS, *Klebsiella* species, *P. mirabilis*, *P. aeruginosa*, CA-MRSA: amoxicillin-clavulanic acid, ampicillin (for *E. faecalis*), cephalothin (cephalexin), clindamycin, doxycycline, trimethoprim-sulfamethoxazole, ciprofloxacin, cefepime, piperacillin-tazobactam, imipenem, gentamicin]**(153, 141, 1112, 127, 172, 146, 174, or 1118 Req.)

OneSwab® INTESTINAL PATHOGENS by Real-Time PCR unless otherwise specified Loose Stool, Rectal Swab, No Lubricant

- 365 *Campylobacter jejuni*
- 162 *Clostridium difficile* (Toxins A and B)
- 371 *Cryptosporidium parvum*
- 168 Enteropathogenic *Escherichia coli* (O157:H7)
- 370 *Giardia lamblia*
- 310 *Helicobacter pylori*
- 274 Human Rotavirus A
- 158 *Listeria monocytogenes*
- 272 Norwalk virus
- 160 Salmonella
- 161 Shigella

NasoSwab® PEDIATRIC & ADULT by Real-Time PCR unless otherwise specified Respiratory Infectious Diseases only

- 369 *Acinetobacter baumannii*
- 222 Adenovirus
- 1101 *Bordetella parapertussis*
- 1102 *Bordetella pertussis*
- 319 *Chlamydia pneumoniae*
- 273 Coxsackie virus A & B by Pyrosequencing
- 1112 Group A Streptococcus
- 1125 2009 H1N1 Influenza Virus (Swine Flu) with tamiflu resistance by Pyrosequencing
- 1117 *Haemophilus influenzae*
- 1114 Human Bocavirus
- 1115 Human Coronavirus (Human Coronaviruses 229E, OC43, NL-63)
- 1105 Human Metapneumovirus
- 1106 Influenza A Virus (Reflex to amantadine resistance by Pyrosequencing)
- 1107 Influenza B Virus
- 1109 *Moraxella catarrhalis*
- 336 *Mycoplasma pneumoniae*
- 1121 *Neisseria meningitidis* (Reflex to penicillin resistance by Pyrosequencing)
- 1110 Parainfluenza Viruses 1-4
- 174 *Pseudomonas aeruginosa*
- 1103 Respiratory Syncytial Virus A (RSV A)
- 1104 Respiratory Syncytial Virus B (RSV B) R
- 1116 RSV A & RSV B by Multiplex Real-Time PCR
- 1120 Severe Acute Respiratory Syndrome (SARS)
- 1118 *Staphylococcus aureus* with methicillin resistance (MRSA) by Conventional PCR
- 1119 Panton-Valentine Leukocidin (PVL) DNA (Type IV + #1118 Req.)
[Community-Associated MRSA = Type IV MRSA+ and PVL+]
- 1111 *Streptococcus pneumoniae*

BACTERIOLOGY

- 149 *Actinomyces turicensis* by Real-Time PCR
- 147 *Bacteroides ureolyticus* by Real-Time PCR
- 326 *Bartonella bacilliformis* by Real-Time PCR
- 325 *Bartonella clarridgeiae* by Real-Time PCR
- 339 *Bartonella elizabethae* by Real-Time PCR
- 317 *Bartonella henselae* by Real-Time PCR
- 342 *Bartonella quintana* by Real-Time PCR
- 356 *Bartonella* species (*B. henselae*, *B. quintana*) by Real-Time PCR
- 352 *Bordetella pertussis* (IgG/IgA) by Western blot (serum required)
- 359 *Brucella* species (*B. abortus*, *B. canis*, *B. melitensis*, *B. ovis*, and *B. suis*) by Real-Time PCR
- 319 *Chlamydomydia pneumoniae* by Real-Time PCR
- 327 *Chlamydomydia pneumoniae* IgG/IgM by ELISA (serum required)
- 361 *Chlamydomydia psittaci* by Real-Time PCR
- 364 *Chlamydiales* species (*Chlamydomydia pneumoniae*, *Chlamydomydia psittaci*, and *Chlamydia trachomatis*) by Real-Time PCR
- 105 *Chlamydia trachomatis* by Real-Time PCR
- 360 *Francisella* species (*F. tularensis*, *F. holarctica*) by Real-Time PCR
- 310 *Helicobacter pylori* by Real-Time PCR
- 357 *Helicobacter pylori* by Real-Time PCR (Reflex to clarithromycin resistance by Pyrosequencing) (Gastric Biopsies only) (#310 Req.)*
- 353 *Helicobacter pylori* (IgG/IgA) by Western blot (serum required)
- 318 *Legionella pneumophila* by Real-Time PCR
- 158 *Listeria monocytogenes* by Real-Time PCR
- 332 *Mycoplasma fermentans* by Real-Time PCR
- 301 *Mycoplasma* general by Qualitative PCR
- 130 *Mycoplasma hominis* by Real-Time PCR
- 335 *Mycoplasma penetrans* by Real-Time PCR
- 336 *Mycoplasma pneumoniae* by Real-Time PCR
- 340 *Mycoplasma pneumoniae* IgG/IgM by ELISA (serum required)
- 167 *Neisseria gonorrhoeae* by Real-Time PCR (Reflex to Antibiotic Resistance by Bio-Plex Analysis)
- 362 *Prevotella* species Group 1 (*P. bivia*, *P. disiens*, *P. intermedia*, *P. melaninogenica*) by Real-Time PCR
- 363 *Prevotella* species Group 2 (*P. corporum*, *P. albensis*) by Real-Time PCR
- 151 *Staphylococcus saprophyticus* by Real-Time PCR
- 308 *Toxoplasma gondii* by Real-Time PCR
- 110 *Treponema pallidum* (syphilis) by Real-Time PCR
- 358 *Tropheryma whippelii* by Real-Time PCR
- 320 *Ureaplasma urealyticum* by Real-Time PCR
- 354 *Yersinia* species (IgG/IgA) by Western blot (serum required)

MYCOLOGY

- 553 *Aspergillus fumigatus* by Real-Time PCR
- 551 *Candida albicans* by Real-Time PCR
- 576 *Candida dubliniensis* by Real-Time PCR
- 559 *Candida glabrata* by Real-Time PCR
- 578 *Candida kefyr* by Real-Time PCR
- 566 *Candida krusei* by Real-Time PCR
- 577 *Candida lusitanae* by Real-Time PCR
- 558 *Candida parapsilosis* by Real-Time PCR
- 557 *Candida tropicalis* by Real-Time PCR
- 580 *Coccidioides* species (*C. immitis*, *C. posadasii*) by Real-Time PCR
- 554 *Cryptococcus neoformans* by Real-Time PCR
- 550 *Pneumocystis carinii* by Real-Time PCR
- 555 *Trichosporon* by Qualitative PCR

Physicians must only order tests that they have determined are medically necessary for the diagnosis and treatment of a patient. MDL offers individual tests, as well as a limited number of customized panels. If you choose to order a panel, please make certain that each and every test is medically necessary. If you check off a panel as your choice, MDL understands that the physician has determined that all of the component tests are medically necessary, and will perform, report and bill for all such component tests.

* This test can only be performed when the test in parenthesis is positive. All tests performed will be billed. OneSwab®, UroSwab® and NasoSwab® are registered in the United States Patent and Trademark Office.

VIROLOGY

- 222 Adenovirus by Real-Time PCR
- 434 Colorado Tick Fever virus by Real-Time PCR
- 273 Coxsackie virus A & B by Pyrosequencing
- 207 Cytomegalovirus (CMV) by Real-Time PCR
- 233 CMV IgG/IgM by ELISA (serum required)
- 270 Dengue viruses 1-4 by Real-Time PCR
- 269 Eastern Equine Encephalitis virus by Real-Time PCR
- 205 Epstein-Barr virus (EBV) by Real-Time PCR
- 231 EBV-EA-D IgG/IgM by ELISA (serum required)
- 230 EBV-EBNA-1 IgG/IgM by ELISA (serum required)
- 229 EBV-VCA IgG/IgM by ELISA (serum required)
- 436 Heartland virus (Phlebovirus) by Real-Time PCR
- 262 Hepatitis A virus (HAV) by Real-Time PCR
- 260 Hepatitis B virus (HBV) viral load by Real-Time PCR
- 267 HBV Subtyping by Pyrosequencing (#260 Req.)*
- 268 HBV Genotyping by Pyrosequencing (Drug Resistance) (#260 Req.)*
- 250 Hepatitis C virus (HCV) viral load by Real-Time PCR
- 252 HCV Subtyping by Pyrosequencing (#250 Req.)*
- 261 Hepatitis G virus (HGV) by Real-Time PCR
- 126 Herpes subtype (HSV-1, HSV-2) by Real-Time PCR
- 257 HSV-1 IgG by ELISA (serum required)
- 258 HSV-2 IgG by ELISA (serum required)
- 254 HIV-1 by Western blot (serum required)
- 253 HIV-1 & 2 by Enzyme Immuno Assay (EIA) (serum required)
- 238 Human herpesvirus-6 (HHV-6) IgG by ELISA (serum required)
- 219 Human herpesvirus-6 (HHV-6) Variants A & B by Real-Time PCR
- 263 Human herpesvirus-7 (HHV-7) by Real-Time PCR
- 221 Human herpesvirus-8 (HHV-8) by Real-Time PCR
- 203 Human T-lymphotropic virus I (HTLV-I) by Real-Time PCR
- 266 LaCrosse Encephalitis virus by Real-Time PCR
- 223 Parvovirus by Real-Time PCR
- 138 Polyomavirus BK by Real-Time PCR (UroSwab® or blood)
- 139 Polyomavirus JC by Real-Time PCR (UroSwab® or blood)
- 264 St. Louis Encephalitis virus by Real-Time PCR
- 215 Varicella-zoster virus (VZV) by Real-Time PCR
- 243 West Nile virus by Real-Time PCR
- 244 West Nile virus IgG/IgM by ELISA (serum required)
- 265 Western Equine Encephalitis virus by Real-Time PCR

VECTOR-BORNE DISEASES

- 435 *Anaplasma phagocytophilum* IgG/IgM by ELISA (serum required)
- 410 *Babesia microti* by Real-Time PCR
- 433 *Babesia microti* IgG/IgM by ELISA (serum required)
- 431 *Babesia* WA1 by Real-Time PCR
- 355 *Bartonella henselae* IgG/IgM by ELISA (serum required)
- 317 *Bartonella henselae* by Real-Time PCR
- 424 *Borrelia afzelii* by Real-Time PCR
- 425 *Borrelia garinii* by Real-Time PCR
- 430 *Borrelia lonestari* by Real-Time PCR
- 411 *Ehrlichia chaffeensis* (HME) & *Anaplasma phagocytophilum* (HGE) by Real-Time PCR
- 305 Lyme disease (*B. burgdorferi*) by Real-Time PCR
- 427 Lyme disease IgG/IgM by ELISA (serum required)
- 417 Lyme disease C6 Peptide by ELISA (serum required)
- 313 Lyme disease Western blot (IgG/IgM) (serum required)
- 416 *Rickettsia rickettsii* (RMSF) by Real-Time PCR

Other Tests/Panels:

For additional tests/panels, please refer to our website: www.mdlab.com.

Blood Specimen Collection

The proper specimen collection technique is very important in identifying pathogens from DNA. Medical Diagnostic Laboratories, L.L.C. provides the specimen collection kits for your convenience when submitting whole blood and serum specimens.

Whole Blood: Yellow Top (ACD solution A)



- In accordance with the standard operating procedure of your facility, collect blood in two yellow top (ACD solution A) tubes.
- Allow the tubes to fill properly to ensure the proper blood to anticoagulant ratio.
- Invert gently several times to mix and prevent clot formation. Do not shake the tubes. Do not centrifuge.
- Label the vials with a minimum of two patient identifiers such as patient name and date of birth.
- For packaging and shipping instructions, please refer to the back.

Serum: Serum Separator Tube



- In accordance with the standard operating procedure of your facility, collect blood in a serum separator tube (SST).
- Label the vial with a minimum of two patient identifiers such as patient name and date of birth.
- Allow the specimen to clot at room temperature for a minimum of 30 minutes.
- Centrifuge the specimen at room temperature at a speed of 1000 to 1300 RCF for 10 minutes in a swinging bucket centrifuge and 15 minutes in a fixed-angle centrifuge.
- For packaging and shipping instructions, please refer to the back.

Collection Kits:

Whole Blood



Testing:

- Real-Time PCR
- Pyrosequencing
- Next Generation Sequencing

Serum



Testing:

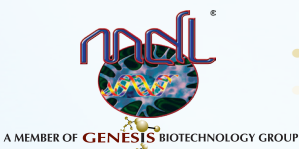
- ELISA
- IFA
- Western blot

Whole Blood & Serum



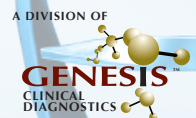
Testing:

- Real-Time PCR
- Pyrosequencing
- Next Generation Sequencing
- ELISA
- IFA
- Western blot



Medical Diagnostic Laboratories, L.L.C.
www.mdlab.com • 877.269.0090

Rel: 5/2019



Packaging MDL Specimens for FedEx Pick-up.

1

Insert labeled vial into mailer.



Insert the mailer into biohazard bag.

Be sure to include a completed test requisition form for each specimen in the front pocket of the biohazard bag.



3

Insert sealed biohazard bag into the prepaid FedEx Lab Pack envelope. One Lab Pack will accommodate 6-7 Styrofoam containers.

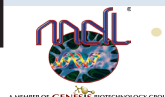


Remove FedEx receipt inside Lab Pack for your records.

Don't forget to seal the Lab pack!



Verify that a preaddressed airbill is attached to ensure proper delivery.



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