

Testing Capabilities

Full Panel Listings & Matrices



Testing Matrix Legend

BE - Blood EDTA
BP - Blood Plasma EDTA
BS - Blood Serum
NC - Toe Nail Clippings

NP - Nasopharyngeal
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W - Wound

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Molecular Infectious Disease

Turnaround Time: 24 Hours

COVID-19 PCR Test - NP, OP, S

SARS-CoV-2 Antibody Panel - BS

SARS-CoV-2 IgG
 SARS-CoV-2 IgM

Strep & Flu Reflex Panel - NP, OP

Enteroviruses species A, B, C, & D
 Human adenoviruses-7 species
 Human respiratory syncytial virus A & B
 Human Rhinoviruses-3 species
 Human parechoviruses subtypes 1-8, 10, 14, & 17
 Influenza A H1N1 subtype
 Influenza A viruses-general subtypes
 Influenza B viruses-both subtypes
 Methicillin Resistance (mecA)
 Staphylococcus aureus
 Streptococcus agalactiae (GBS)
 Streptococcus pyogenes (GAS)
 Vancomycin Resistance

Advantage Respiratory Panel (full) - NP, OP

Bordetella spp.
 Chlamydomphila pneumoniae
 Enteroviruses Species A, B, C & D
 Haemophilus influenzae
 Haemophilus influenzae B
 Human Adenoviruses-7 Species
 Human Bocaviruses subtype 1
 Human Coronavirus 229E strain
 Human Coronavirus HKU1 strain
 Human Coronavirus NL63 strain
 Human Coronavirus OC43 strain
 Human Metapneumovirus A & B
 Human Parainfluenza Virus 1
 Human Parainfluenza Virus 2
 Human Parainfluenza Virus 3
 Human Parainfluenza Virus 4
 Human Parechoviruses Subtypes 1-8, 10, 14, & 17
 Human Respiratory Syncytial Virus A & B
 Human Rhinoviruses - 3 Species
 Human Influenza A viruses - general subtypes
 Human Influenza A H1N1 subtype
 Human Influenza B viruses - both subtypes
 Human Influenza C viruses - all reported subtypes
 Klebsiella pneumoniae
 Legionella pneumophila/longbeachae
 Methicillin Resistance (mecA)
 Moraxella catarrhalis
 Mycoplasma pneumoniae
 Pneumocystis jirovecii
 Salmonella spp.
 Staphylococcus aureus
 Staphylococcus pneumoniae
 Streptococcus agalactiae (GBS)
 Streptococcus pyogenes (GAS)
 Vancomycin Resistance

Gastrointestinal Panel - ST

Shigella Species
 Clostridium difficile
 Human adenovirus
 Salmonella
 Norovirus G1
 Norovirus G2
 Rotavirus
 Enteroinvasive Escherichia coli
 Sapovirus
 Human astrovirus
 Enterohemorrhagic/verotoxin producing Escherichia coli
 Campylobacter Species
 Giardia lamblia
 Entamoeba histolytica
 Cryptosporidium Species
 Yersinia enterocolitica
 Helicobacter pylori
 Enterobius vermicularis
 Ancylostoma duodenale
 Necator americanus

Nail Fungus (H&E/PAS)/Paronychia Panel - NC

Candida albicans
 Candida glabrata
 Candida parapsilosis
 Candida tropicalis
 Enterococcus faecalis
 Enterococcus faecium
 Epidermophyton floccosum
 Escherichia coli
 Klebsiella pneumoniae
 Proteus mirabilis
 Pseudomonas aeruginosa
 Staphylococcus aureus
 Streptococcus agalactiae (GBS)
 Streptococcus pyogenes (GAS)
 Trichophyton species

Wound/Ortho Panel - W

Candida albicans
 Candida glabrata
 Candida parapsilosis
 Candida tropicalis
 Enterococcus faecalis
 Enterococcus faecium
 Epidermophyton floccosum
 Escherichia coli
 Klebsiella pneumoniae
 Proteus mirabilis
 Pseudomonas aeruginosa
 Staphylococcus aureus
 Streptococcus agalactiae (GBS)
 Streptococcus pyogenes (GAS)
 Trichophyton species

Urinary Tract Panel - U

Acinetobacter baumannii
 Actinotignum schaalii
 Aerococcus urinae
 Bacteroides fragilis
 Candida albicans
 Candida glabrata
 Candida parapsilosis
 Candida tropicalis
 Citrobacter freundii/braakii/koseri
 Enterobacter cloacae
 Enterococcus faecalis
 Enterococcus faecium
 Escherichia coli
 Klebsiella aerogenes
 Klebsiella oxytoca
 Klebsiella pneumoniae
 Morganella morganii
 Prevotella bivia
 Proteus mirabilis
 Proteus vulgaris
 Pseudomonas aeruginosa
 Serratia marcescens
 Staphylococcus aureus
 Staphylococcus saprophyticus
 Streptococcus agalactiae (GBS)
 Streptococcus pyogenes (GAS)

STI - U

Atopobium vaginae
 Megaspheera type I
 Megaspheera type II
 Bacterial Vaginosis-Associated Bacterium 1
 Bacterial Vaginosis-Associated Bacterium 2
 Bacterial Vaginosis-Associated Bacterium 3
 Mobiluncus curtisii
 Mobiluncus mulieris
 Neisseria gonorrhoeae
 Herpes Simplex Virus 1 and 2
 Mycoplasma genitalium
 Ureaplasma urealyticum/parvum
 Chlamydia trachomatis
 Trichomonas vaginalis
 Gardnerella vaginalis

Antibiotic Resistance Genes - U, W, NC

Aminoglycoside (ant-1a, aph3)
 Bactrim (Su1, DfrA1)
 Beta Lactamase (CTX-M-Grp1, TEM, & SHV)
 Carbapenem (KPC, NDM, OXA48)
 Fluoroquinolone (qnr, gyrA)
 Methicillin (mecA)
 Tetracycline (tetB and tetM)
 Vancomycin (vanA, B, & M)

THE HUMAN ADVANTAGE

IN LABORATORY TESTING

Advanta Analytical Laboratories Phone: 903.805.9955 CLIA #: 45D2063134
 10935 CR 159, Tyler, TX 75703 Fax: 903.839.2494 www.aalabs.com

Hours of Operation: 8 AM - 5 PM Monday - Friday

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Toxicology

Turnaround Time: **48 Hours**

U, OF, BP

Alcohol

Ethyl Glucuronide
 Ethyl Sulfate

Alkaloids & Cannabinoids

Cotinine
 Nicotine
 THC

Anti-epileptics

Gabapentin
 Pregabalin

Antidepressants

Amitriptyline
 Clozapine
 Desipramine
 Doxepin
 Fluoxetine
 Imipramine
 Nortriptyline
 Paroxetine
 Risperidone
 Venlafaxine

Barbiturates

Amobarbital
 Butabarbital
 Butalbital
 Pentobarbital
 Phenobarbital
 Secobarbital

Benzodiazepines/Sedatives

7-Aminoclonazepam
 7-Aminoflunitrazepam
 Alpha-OH-Alprazolam
 Alprazolam
 Chlordiazepoxide
 Clonazepam
 Desalkylflurazepam
 Diazepam
 Flunitrazepam
 Flurazepam
 Lorazepam
 Nordiazepam
 Oxazepam
 Temazepam
 Triazolam

Illicits

6-MAM
 Benzoylcegonine
 Ketamine
 Norketamine
 Phencyclidine

Methamphetamine D&L Isomer

Opiates & Opioids

Buprenorphine
 Codeine
 Dextromethorphan
 Dextrorphan
 Dihydrocodeine
 EDDP
 Fentanyl
 Hydrocodone
 Hydromorphone
 Meperidine
 Methadone
 Mitragynine
 Morphine
 Naloxone
 Naltrexone
 Norbuprenorphine
 Norfentanyl
 Norhydrocodone
 Normeperidine
 Normorphine
 Noroxycodone
 Noroxymorphone
 O-Desmethyl-Cis-Tramadol
 Oxycodone
 Oxymorphone
 Tapentadol
 Tramadol

Stimulants

Alpha-PVP
 Amphetamine
 MDA
 MDEA
 MDMA
 MDPV
 Mephedrone
 Methamphetamine
 Methylone
 Methylphenidate
 Phentermine
 Ritalinic Acid

Muscle Relaxants

Carisoprodol
 Cyclobenzaprine
 Meprobamate

Sedative Hypnotics

Zaleplon
 Zolpidem
 Zolpidem Phenyl-4-Carboxylic Acid
 Zopiclone

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Carrier Screening

Turnaround Time: 3-5 Days

Cystic Fibrosis - BE

1717-1G>A* (c.1585-1G>A)	G85E* (c.254G>A)	1078delT (c.948del)	Q890X (c.2668C>T)
1898+1G>A* (c.1766+1G>A)	I507del* (c.1516_1518del)	1154insTC (c.1019_1020dup)	R1066C (c.3196C>T)
2184delA* (c.2052del)	L206W (c.617T>G)	1548delG (c.1418del)	R1070W (c.3208C>T)
2184insA (c.2052dup)	N1303K* (c.3909C>G)	1677delTA (c.1545_1546del)	R1158X (c.3472C>T)
2789+5G>A* (c.2657+5G>A)	P5L (c.14C>T)	1811+1.6kbA>G (c.1680-886A>G)	R117C (c.349C>T)
3120+1G>A* (c.2988+1G>A)	PolyT (c.1210-12T[5_9])	1898+5G>T (c.1766+5G>T)	R352Q (c.1055G>A)
3272-26A>G (c.3140-26A>G)	PolyTG (c.1210-34TG[10_12])	2789+2insA (c.2657+2_2657+3insA)	R75X (c.223C>T)
3659delC* (c.3528del)	R1070Q (c.3209G>A)	3876delA (c.3744del)	S549N (c.1646G>A)
3849+10kbC>T* (c.3718-2477C>T)	R1162X* (c.3484C>T)	3905insT (c.3773dup)	V456A (c.1367T>C)
621+1G>T* (c.489+1G>T)	R117H* (c.350G>A)	394delTT (c.262_263del)	V520F (c.1558G>T)
711+1G>T* (c.579+1G>T)	R334W* (c.1000C>T)	A559T (c.1675G>A)	Y1092X (c.3276C>A, c.3276C>G)
A455E* (c.1364C>A)	R347H (c.1040G>A)	E60X (c.178G>T)	Y122X (c.366T>A)
D1152H (c.3454G>C)	R347P* (c.1040G>C)	F311del (c.935_937del, c.933_935del)	Spinal Muscular Atrophy - BE
F508del* (c.1521_1523del)	R553X* (c.1657C>T)	G970D (c.2909G>A)	SMN1
G542X* (c.1624G>T)	R560T* (c.1679G>C)	I618T (c.1853T>C)	SMN2
G551D* (c.1652G>A)	S945L (c.2834C>T)	M1101K (c.3302T>A)	Fragile X - BE
G622D (c.1865G>A)	W1282X* (c.3846G>A)	P67L (c.200C>T)	FMR1
	2183AA>G (c.2051_2052delAAinsG)	Q493X (c.1477C>T)	

Microbiology

Turnaround Time: 2-7 Days

Microbiological Cultures with Antimicrobial Susceptibility - U, W

Urine
 Wound

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Chemistry

Turnaround Time: 24 Hours

BS

Albumin BCP	Digoxin	Potassium
Alk Phosphatase	Direct Billi	Prealbumin
ALT	Direct LDL	Rheumatoid Factor (RF)
Ammonia	Glucose	Sodium
Amylase	HCL Reference	Total Bilirubin
AST	Hemoglobin A1c BE	Total Protein
Calcium	Icterus	Transferrin
Cannabinoids	Iron	Triglycerides
Cardiac CRP - High Sensitivity	LDH	Ultra HDL
Cholesterol	Lipase	Unsaturated Iron-Binding Capacity (UIBC)
CO2	Lipemia	Urea Nitrogen
Creatinine (JAFPE)	Magnesium Enzymatic	Uric Acid
Creatinine Kinase	Phosphorus	Urine/CSF Protein

ImmunoAssay

Turnaround Time: 24 Hours

BS

AFP	Estradiol	SARS -CoV-2 IgG II
"Anti-HBc (Total CORE)"	Ferritin	SARS-CoV-2 IgG
"Anti-HBc IgM	Folate	SARS-Cov-2-Ig
Anti-TPO	Free PSA	SHBG (Sex Hormone Binding Globulin)
(CORE-M)"	Free T3	Syphilis
"Anti-HBs (AUSAB)"	Free T4	Testosterone
Anti-HCV	FSH	Total PSA
BhCG	HAVAB IgG	Total T3
CEA	HAVAB IgM	Total T4
CKMB	HBsAg Qual	TSH
Cortisol	HIV Ag/Ab Combo	T-Uptake
DHEAS	Homocysteine	Vitamin B12
	Progesterone	Vitamin D
	Prolactin	

Complete Blood Count (CBC)

Turnaround Time: 24 Hours

BE

White Blood Cells (WBC)
Neutrophils (%)
Lymphocytes (%)
Monocytes (%)
Eosinophils (%)
Basophils (%)
Red Blood Cells (RBC)
Hemoglobin (HGB)
Hematocrit (HCT)
Mean Cell Volume (MCV)
Red Cell Distribution Width (RDW)
Platelets (PLT)
Mean Platelet Volume (MPV)

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Autoimmune

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BS

Rheumatoid Factor Total	Anti-Sm / RNP
Rheumatoid Factor IgM (RF)	Anti-SSB (La)
Rheumatoid Factor IgG (RF)	Anti-SSA, Ro
Rheumatoid Factor IgA (RF)	Anti-Sm
Vasculitis (ANCA-PR3, ANCA - MPO, GM)	ENA-6 Screen - Sm, Sm/RNP, SSA, SSB, Scl-70 and Jo-1
Connective 10 (dsDNA, SS-A (60 kDa, 52kDa), SS-B, SM, Sm/RNP, Scl-70, Jo-1, Ribosomal-P, Centromere)	Cardiolipin-GM
ANA-Screen	Cardiolipin-A
Anti-Cyclic Citrullinated Peptide (CCP)	Cardiolipin-Check
Anti-Deamidated Gliadin Peptide IgG (DGP)	Jo-1
Anti-Deamidated Gliadin Peptide IgA (DGP)	Scl-70
Anti-Tissue Transglutaminase IgG (tTG)	SS-B
Anti-Tissue Transglutaminase IgA (tTg)	SS-A
ANA ELISA SCREEN (dsDNA, nDNA, Histones, SSA, SSB, Sm, Sm/RNP, Scl-70, Jo-1, HEp-2 ANAs, centromeric)	Sm
Rheumatoid Factor	snRNP-C
Anti-dsDNA	ENA-6S
Anti-TG IgG (Thyroglobulin)	MPO
Anti-TPO IgG (Thyroid Peroxidase)	PR3
Anti-PR-3 (C-ANCA) IgG	Beta 2 Glycoprotein Check
Anti-MPO (P-ANCA) IgG	Beta 2 Glycoprotein IgG/IgM
Anti-Jo-1	Beta 2 Glycoprotein IgA
Anti-Scl-70	dsDNA-G

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