GRI LABS TEST MENU

GRI Labs is proud to offer a large and growing menu of tests across a wide variety of categories.
As our menu continues to expand, please reach out to us even if a particular test is not shown here.

Blood Chemistry

With a standard blood draw, we offer a wide range of serological tests and panels.

Complete Blood Count (CBC)

The CBC test checks for levels of 10 different components of every major cell in the blood.

Basic and Comprehensive Metabolic Panels (BMP and CMP)

Metabolic panels check for levels of key compounds in the blood. Abnormal results may indicate kidney disease, diabetes, or hormone imbalances.

	BMP	CMP
A/G Ratio		•
Albumin		•
ALP (Alkaline Phosphatase)		•
ALT (Alanine Aminotransferase)		•
AST (Aspartate Aminotransferase)		•
BUN (Blood Urea Nitrogen)	•	•
Calcium	•	•
CO2 (Carbon Dioxide)	•	•
Creatinine	•	•
Direct Bilirubin		•
eGFR (Calculated)	•	•
Globulin		•
Glucose	•	•
ISE (Na, K, Cl)	•	•
Total Bilirubin		•

Lipid Panel

The lipid profile test checks levels of two types of cholesterol: high-density lipoprotein (HDL), or "good" cholesterol and low-density lipoprotein (LDL), or "bad" cholesterol.

- Cholesterol (Total)
- HDL Cholesterol
- LDL (Calculated)
- Triglycerides

Hepatic Panel

The hepatic panel provides information about the state of the patient's liver by measuring blood levels of key indicators.

- Albumin
- ALP
- ALT
- AST
- Direct Bilirubin
- GGT
- Total Bilirubin
- Total Protein

Thyroid Panel

The thyroid panel, or thyroid function test, checks how well the thyroid is producing and reacting to certain hormones.

- Free T3
- Free T4
- Total T3
- Total T4
- Thyroglobulin Antibody
- Thyroglobulin TPO Antibody
- TSH (3rd IS)

	Renal Panel						
	The renal panel provides information on the current status of the kidneys, electrolyte balance, acid/base balance,						
	and blood sugar levels.						
	Albumin						
	BUN (Blood Urea Nitrogen)						
	BUN / Creatinine (Calculated)						
	Calcium						
	CO2 (Carbon Dioxide)						
	Creatinine						
	eGFR						
	Glucose						
	Phosphorus						
	ISE (Na,K,Cl)						
	Iron Studies Panel						
	Iron tests measure different substances in the blood to check iron levels in the body.						
	Direct TIBC						
	Ferritin Folate						
	Iron						
	Transferrin Saturation						
	Vitamin B12						
	COVID-19 Antibody						
	Antibody testing can show the level of immunity, built-up either from past infection or vaccination.						
	SARS-CoV-2 IgG						
	SARS-CoV-2 IgM						
	Magnesium						
	Uric Acid						
	HgbA1c						
	PSA						
	Free PSA						
	Vitamin D						
	Amylase						

Urinalysis (UA)

Our UA Chemistry and UA Microscopy tests use automated technology to screen for bacteria, nitrates and other debris in urine.

In the case of a positive screen, our PCR-based UTM test can provide confirmation and identify pathogens with more specificity.

UA Chemistry

- Ascorbic Acid
- Bilirubin
- Blood
- Clarity
- Color
- Glucose
- Ketone
- Leukocytes
- Nitrite
- pH
- Protein
- Specific Gravity
- Urobilinogen

UA Microscopy

- All Small Particle
- Amorphous Crystal
- Artifact
- Bacteria
- Broad Cast
- Budding Yeast
- Calcium Carbonate
- Calcium Oxalate
- Calcium Phosphate Crystal
- Cellular Cast
- Cystine Crystal
- Dysmorphic Red Blood Cell
- Epithelial Cast
- Fat
- Fatty Cast
- Granular Cast
- Hyaline Cast
- Hyphae Yeast
- Leucine Crystal
- Mucous
- Non-Squamous Epithelial
- Oval Fat Body
- Red Blood Cell Cast
- Red Blood Cell Clump
- Red Blood Cell
- Renal Epithelial
- Sperm
- Squamous Epithelial
- Transitional Epithelial
- Trichomonas
- Triple Phosphate Crystal
- Tyrosine Crystal
- Unclassified
- Unclassified Cast
- Unclassified Crystal
- Uric Acid Crystal
- Waxy Cast
- White Blood Cell
- White Blood Cell Cast
- White Blood Cell Clump

Urinary Tract Infections (UTIs) and Vaginal Tract Microbiota (VTM)		
From a convenient urine sample, we detect UTIs plus certain Vaginal Tract Microbiota (VTM), including common STDs.		
With a vaginal swab, we can detect even more VTMs and STDs, including syphillys.		
	Urine Sample	Vaginal Swab
Acinetobacter baumannii	•	
Citrobacter freundii	•	
Enterobacter aerogenes	•	
Enterobacter cloacae	•	
Enterococcus faecium	•	
Klebsiella oxytoca	•	
Klebsiella pneumoniae	•	
Morganella morganii	•	
Proteus mirabilis	•	
Proteus vulgaris	•	
Providencia stuartii	•	
Pseudomonas aeruginosa	•	
Staphylococcus saprophyticus	•	
Candida albicans	•	•
Enterococcus faecalis	•	•
Escherichia coli	•	•
Streptococcus agalactiae (group B)	•	•
Atopobium vaginae	•	•
BVAB2	•	•
Chlamydia trachomatis	•	•
Gardnerella vaginalis	•	•
Megasphaera 1	•	•
Mycoplasma genitalium	•	•
Neisseria gonorrhoeae	•	•
Prevotella bivia	•	•
Trichomonas vaginalis	•	•
Bacteroides fragilis		•
Candida dubliniensis		•
Candida glabrata		•
Candida krusei		•
Candida lusitaniae		•
Candida parapsilosis		•
Candida tropicalis		•
Haemophilus ducreyi		•
HSV1		•
HSV2		•
Lactobacillus crispatus		•
Lactobacillus gasseri		•
Lactobacillus iners		•
Lactobacillus jensenii		•
Megasphaera 2		•
Mobiluncus curtisii		•
Mobiluncus mulieris		•
Mycoplasma hominis		•
Staphylococcus aureus		•
Treponema pallidum (syphilis)		•
Ureaplasma urealyticum		•

Gastrointestinal (GI) Infections	
Our PCR-based test for gastrointestinal infections is used to detect C Diff (Clostridium Difficile) and other pathogens.	
Adenovirus F40/41	Listeria monocytogenes
Astrovirus	Norovirus GI
Campylobacter pool	Norovirus GII
Clostridium difficile (toxin A/B)	Plesiomonas shigelloides
Cryptosporidium spp.	Rotavirus A
Cyclospora cayetanensis	Rotavirus B
E. coli enteroinvasive (EIEC) / Shigella spp	Rotavirus C
E. coli O157	Salmonella 2
Entamoeba histolytica	Sapovirus 1 of 2
Enteroaggregative E. coli (EAEC)	Sapovirus 2 of 2
Enteropathogenic E. coli (EPEC)	Shiga-like toxin-producing E. coli (STEC) stx1/stx2
Enterotoxigenic E. coli (ETEC)	Vibrio pool
Giardia lamblia	Yersinia enterocolitica
Wound Care (Coming Soon)	
Our PCR-based wound care test detects pathogens found in infected wounds and soft skin and provides antibiotic resistance markers.	
Bacterial	
Acinetobacter baumanii	Mycobacterium fortuitum
Bacteroides fragilis	Mycobacterium ulcerans
Bacteroides vulgatus	Mycoplasma genitalium, hominis
Citrobacter freundii	Peptostreptococcus prevotii
Clostridium perfringens	Peptostreptococcus anerobius
Clostridium novyi	Peptostreptococcus asaccharolyticus
Clostridium septicum	Peptostreptococcus magnus
Corynebacterium jeikeium	Proteus mirabilis
Corynebacterium striatum	Proteus vulgaris
Enterobacter aerogenes	Pseudomonas aeruginosa
Enterobacter cloacae	Salmonella enterica
Enterococcus faecalis	Serratia marcescens
Enterococcus faecium	Staphylococcus saprophyticus
Escherichia coli	Staphylococcus lugdunensis
Haemophilus influenzae	Staphylococcus epidermidis
Klebsiella oxytoca	Staphylococcus haemolyticus
Klebsiella pneumoniae	Staphylococcus aureus
Mycobacteriodes abscessus	Stenotrophomonas maltophilia
Mycobacterium kansasii	Streptococcus pneumoniae
Mycobacterium intracellulare	Streptococcus agalactiae
Mycobacterium tuberculosis complex	Streptococcus pyogenes
Mycobacterium avium	Vibrio cholerae, parahaemolyticus, vulnificus
Mycobacterium marinum	
Viral	
Herpes zoster virus (Varicella zoster virus)	Trichophyton mentagrophytes
Herpes simplex virus 1 & 2	Trichophyton tonsurans
Fungal	Trichophyton rubrum
Pan-Candida (C.glabrata, C.krusei, C.auris)	Trichophyton soudanense
Microsporum audouinii	Trichophyton Terrestre
Microsporum canis	Trichophyton verrucosum
Microsporum gypseum	Trichosporon mucoides
Trichophyton interdigitale	

Respiratory Infections (including Flu and Covid-19)										
From a nasal or nasopharyngeal swab, we can detect Covid-19 as well as common and not-so-common respiratory tract microbiota (RTM).										
	Coronavirus SARS-CoV-2 (Covid-19)									
	The "gold-standard" PCR-based diagnostic test for Covid-19.									
	Respiratory Pathogen Panels									
	We offer both Basic and Comprehensive panels to detect Respiratory Tract Microbiota. The basic panel (RTM-B) detects Covid-19 plus the common respiratory ailments of flu, RSV, and pneumonia. The comprehensive panel (RTM-C) detects an extensive set of respiratory pathogens.									
						RTM-B	**RTM-C**			
		Viral Respiratory Pathogens								
		Adenovirus				•	•			
		Coronavirus HKU1				•	•			
		Coronavirus NL63				•	•			
		Coronavirus 229E				•	•			
		Coronavirus OC43				•	•			
		Coronavirus SARS-CoV-2 (Covid-19)				•	•			
		Human metapneumovirus				•	•			
		Rhinovirus				•	•			
		Enterovirus (Pan)				•	•			
		Enterovirus D68				•	•			
		Influenza A (Pan)				•	•			
		Influenza A/H1-2009				•	•			
		Influenza A/H3				•	•			
		Influenza B (Pan)				•	•			
		Parainfluenza 1				•	•			
		Parainfluenza 2				•	•			
		Parainfluenza 3				•	•			
		Parainfluenza 4				•	•			
		Respiratory Syncytial Virus A				•	•			
		Respiratory Syncytial Virus B				•	•			
		Epstein-Barr virus (EBV) (HHV-4)					•			
		Cytomegalovirus (HHV-5)					•			
		Human herpesvirus 6 (HHV-6)					•			
		Bacterial Respiratory Pathogens								
		Bordetella (PAN)					•			
		Bordetella pertussis					•			
		Chlamydophila pneumoniae				•	•			
		Mycoplasma pneumoniae				•	•			
		Streptococcus pneumoniae				•	•			
		Staphylococcus aureus					•			
		Klebsiella pneumoniae				•	•			
		Legionella pneumophila				•	•			
		Haemophilus influenzae				•	•			

Antimicrobial (Drug) Resistance)									
GRI's PCR-based Antimicrobial Resistance Test allows healthcare providers to prescribe the right antibiotic first,									
leading to better healthcare outcomes and reduced cost of treatment.									
	Antibiotic Class								
		Aminoglycoside							
		Beta-lactam							
		Colistin							
		Glycopeptide							
		Macrolide							
		Quinolone							
		Sulfonamide							
		Tetracycline							
		Trimethoprim							

Toxicology

Toxicology testing, known more simply as drug testing, consists of screens and confirmations from both urine and saliva samples.

Toxicology Screens

Screening, also known as Presumptive Immunoassay Drug Testing, is the first step in the identification of drugs and their metabolites

Barbituates	Methamphetamine
Amphetamine	Opiates
BENZ	Oxidant
Cocaine	Oxycodone
Creatinine	PCP
Ecstasy	PH
ETG	SP GRAV
Methadone	THC

Toxicology Confirmations

Confirmatory testing, as directed by screens, is performed with definitive LCMS/MS (liquid chromatography / tandem mass spectometry). Although a urine sample is preferred, some metabolites may also be detected with an oral fluid sample.

	Urine Sample	Saliva Sample
Anticonvulsants		
Gabapentin	•	
Pregabalin	•	
Carbamazepine	•	
Antidepressants		
Amitriptyline	•	
Doxepin	•	
Imipramine	•	
Norsertraline	•	
Nortriptyline	•	
Paroxetine	•	
Norfluoxetine	•	
Barbiturates		
Amobarbital	•	
Butalbital	•	•
Phenobarbital	•	•
Pentobarbital	•	
Secobarbital	•	•
Benzodiazepines	•	
Alprazolam	•	•
Clonazepam	•	•
Diazepam	•	•
Flunitrazepam	•	•
Flurazepam	•	
Lorazepam	•	•
Midazolam	•	
Oxazepam	•	•
Temazepam	•	•
Illicits		
6 MAM (Heroin Metabolite)	•	•
Benzoylecgonine (Cocaine)	•	•
Ketamine	•	
MDEA	•	•
MDA	•	•
MDMA (Ecstasy)	•	•
Methamphetamine	•	•

		Mitragynine	•				
		Phencyclidine (PCP)	•	•			
		THC	•	•			
		Muscle Relaxants					
		Baclofen	•				
		Carisoprodol	•				
		Cyclobenzaprine	•				
		Meprobamate	•				
		Opiates					
		Codeine	•	•			
		Hydrocodone	•	•			
		Hydromorphone	•	•			
		Morphine	•	•			
		Norhydrocodone	•				
		Oxycodone	•	•			
		Oxymorphone	•	•			
		Stimulants					
		Amphetamine	•	•			
		Methylphenidate	•				
		Methamphetamine	•	•			
		Opioids: Synthetic					
		Buprenorphine	•	•			
		Fentanyl	•	•			
		Meperidine	•	•			
		Metadone / EDDP	•				
		Naloxone (Suboxone)	•				
		Naltrexone	•				
		Norbupenorphine	•				
		Norfentanyl	•				
		Normeperidine	•				
		O-Desmethyltramadol	•				
		Propoxyphene	•				
		Tramadol	•	•			
		Tapentadol	•				
		Sufentanil	•				
		Alcohol					
		Ethanol	•				
		ETG/ETS	•				
		Other					
		Cotinine	•				
		Phentermine	•				
		Ritalinic Acid	•				
		Zolpidem	•				

Pharmacogenomics (PGx)									
From a buccal (cheek) swab, PGx can predict drug efficacy and tolerance based on an individual's gene profile. The following									
is a list of genes detected. Results include a third-party report on potential drug efficacy and tolerance.									
				APOE	CYP3A4				
				COMT	CYP3A5				
				CYP1A2	Factor II				
				CYP2B6	Factor V Leiden				
				CYP2C19	MTFHR				
				CYP2C9	SLCO1B1				
				CYP2D6	VKORC1				