

**BACTERIAL PATHOGENS**

<b>LAB TEST</b>	<b>/ /</b>	<b>/ /</b>	<b>/ /</b>	<b>/ /</b>	<b>/ /</b>	<b>/ /</b>	<b>/ /</b>
Campylobacter							
C. difficile Toxin A							
C. difficile Toxin B							
Enterohemorrhagic E. coli							
E. coli O157							
Enteroinvasive E. coli/Shigella							
Enterotoxigenic E. coli LT/ST							
Shiga-like Toxin E. coli stx1							
Shiga-like Toxin E. coli stx2							
Salmonella							
Vibrio cholerae							
Yersinia enterocolitica							

**PARASITIC PATHOGENS**

<b>LAB TEST</b>	<b>/ /</b>	<b>/ /</b>	<b>/ /</b>	<b>/ /</b>	<b>/ /</b>	<b>/ /</b>	<b>/ /</b>
Cryptosporidium							
Entamoeba histolytica							
Giardia							

**VIRAL PATHOGENS**

<b>LAB TEST</b>	<b>/ /</b>	<b>/ /</b>	<b>/ /</b>	<b>/ /</b>	<b>/ /</b>	<b>/ /</b>	<b>/ /</b>
Adenovirus 40/41							
Norovirus GI/II							

**H. PYLORI & VIRULENCE FACTORS**

<b>LAB TEST</b>	<b>/ /</b>	<b>/ /</b>	<b>/ /</b>	<b>/ /</b>	<b>/ /</b>	<b>/ /</b>	<b>/ /</b>
Helicobacter pylori							
Virulence Factor, babA							
Virulence Factor, cagA							
Virulence Factor, dupA							
Virulence Factor, iceA							
Virulence Factor, oipA							
Virulence Factor, vacA							
Virulence Factor, virB							

**COMMENSAL BACTERIA**

<b>LAB TEST</b>	<b>/ /</b>	<b>/ /</b>	<b>/ /</b>	<b>/ /</b>	<b>/ /</b>	<b>/ /</b>	<b>/ /</b>
Bacteroides fragilis							
Bifidobacterium spp.							
Enterococcus spp.							
Escherichia spp.							
Lactobacillus spp.							
Enterobacter spp.							
Akkermansia muciniphila							

Faecalibacterium prausnitzii							
Roseburia spp.							

**BACTERIAL PHYLA**

LAB TEST	/ /	/ /	/ /	/ /	/ /	/ /	/ /
Bacteroidetes							
Firmicutes							
Firmicutes:Bacteroidetes Ratio							

**DYSBIOTIC & OVERGROWTH BACTERIA**

LAB TEST	/ /	/ /	/ /	/ /	/ /	/ /	/ /
Bacillus spp.							
Enterococcus faecalis							
Enterococcus faecium							
Morganella spp.							
Pseudomonas spp.							
Pseudomonas aeruginosa							
Staphylococcus spp.							
Staphylococcus aureus							
Streptococcus spp.							

**COMMENSAL OVERGROWTH MICROBES**

LAB TEST	/ /	/ /	/ /	/ /	/ /	/ /	/ /
Desulfovibrio spp.							
Methanobacteriaceae (family)							

**INFLAMMATORY & AUTOIMMUNE-RELATED BACTERIA**

LAB TEST	/ /	/ /	/ /	/ /	/ /	/ /	/ /
Citrobacter spp.							
Citrobacter freundii							
Klebsiella spp.							
Klebsiella pneumoniae							
M. avium subsp. paratuberculosis							
Proteus spp.							

**COMMENSAL INFLAMMATORY & AUTOIMMUNE-RELATED BACTERIA**

LAB TEST	/ /	/ /	/ /	/ /	/ /	/ /	/ /
Enterobacter spp.							
Escherichia spp.							
Fusobacterium spp.							
Prevotella spp.							

**FUNGI/YEAST**

LAB TEST	/ /	/ /	/ /	/ /	/ /	/ /	/ /
Candida spp.							
Candida albicans							
Geotrichum spp.							
Microsporidium spp.							
Rhodotorula spp.							

**VIRUSES**

LAB TEST	/ /	/ /	/ /	/ /	/ /	/ /	/ /

Cytomegalovirus							
Epstein-Barr Virus							

**PROTOZOA**

LAB TEST	/ /	/ /	/ /	/ /	/ /	/ /	/ /
Blastocystis hominis							
Chilomastix mesnili							
Cyclospora spp.							
Dientamoeba fragilis							
Endolimax nana							
Entamoeba coli							
Pentatrichomonas hominis							

**WORMS**

LAB TEST	/ /	/ /	/ /	/ /	/ /	/ /	/ /
Ancylostoma duodenale							
Ascaris lumbricoides							
Necator americanus							
Trichuris trichiura							
Taenia spp.							

**DIGESTION**

LAB TEST	/ /	/ /	/ /	/ /	/ /	/ /	/ /
Steatocrit							
Elastase-1							

**GI MARKERS**

LAB TEST	/ /	/ /	/ /	/ /	/ /	/ /	/ /

β-Glucuronidase							
Occult Blood – FIT							

**IMMUNE RESPONSE**

LAB TEST	/ /	/ /	/ /	/ /	/ /	/ /	/ /
Secretory IgA							
Anti-gliadin IgA							
Eosinophil Activation Protein (EDN, EPX)							

**INFLAMMATION**

LAB TEST	/ /	/ /	/ /	/ /	/ /	/ /	/ /
Calprotectin							

**ADD-ON TESTS**

LAB TEST	/ /	/ /	/ /	/ /	/ /	/ /	/ /
Stool Gluten Peptide							
Zonulin							

**H. PYLORI ANTIBIOTIC RESISTANCE GENES**

LAB TEST	/ /	/ /	/ /	/ /	/ /	/ /	/ /
Amoxicillin							
PBP1A S414R							
PBP1A T556S							
PBP1A N562Y							
Fluoroquinolones							
gyrA N87K							
gyrA D91N							
gyrA D91G							

gyrB S479N							
gyrB R484K							
Clarithromycin							
A2142C							
A2142G							
A2143G							
Tetracycline							
A926G							
AGA926-928TTC							

**UNIVERSAL ANTIBIOTIC RESISTANCE GENES**

b-Lactams							
blaNDM-1							
CTX-M 1							
CTX-M 2							
CTX-M 8/25							
CTX-M 9							
GES							
OXA-1							
PER-1							
PER-2							
SHV							
TEM							
VEB							
Fluoroquinolones							
qnrA							
qnrB							

qnrS1							
Vancomycin							
vanA							
vanA2							
vanB							
vanC1							
vanC2-1							
vanC2-2							
Macrolides							
acrA							
acrB							
emrE							
ermA							
ermB							
ermC							
macA							
macB							
mefA							
mphA							
msrA							
tolc							
Ciprofloxacin							
emea							
pmra							
Nitroimidazoles							
nimA							
nimB							
nimC							

nimD							
nimE							
Trimethoprim							
dfrA1							
dfrA12							
dfrA14							
dfrA15							
dfrA17							
dfrA5							
dfrA7							
dfrB1							
dfrB2							
dfrB3							
Sulfonamides							
sul1							
sul2							
sul3							
Methacillin							
mecA							
Chloramphenicol							
cata13							