

Ordered by: Daniel Farkas, DC

### Pathogens

Bacterial Pathogens	Result		Normal
<i>Campylobacter</i>	<dl		<1.00e3
<i>C. difficile</i> , Toxin A	<b>3.17e6</b>	<b>High</b>	<1.00e3
<i>C. difficile</i> , Toxin B	<b>3.20e6</b>	<b>High</b>	<1.00e3
Enterohemorrhagic <i>E. coli</i>	<b>6.17e2</b>		<1.00e3
<i>E. coli</i> O157	<dl		<1.00e3
Enteroinvasive <i>E. coli</i> /Shigella	<dl		<1.00e2
Enterotoxigenic <i>E. coli</i> LT/ST	<dl		<1.00e3
Shiga-like Toxin <i>E. coli</i> stx1	<dl		<1.00e3
Shiga-like Toxin <i>E. coli</i> stx2	<dl		<1.00e3
<i>Salmonella</i>	<dl		<1.00e4
<i>Vibrio cholerae</i>	<dl		<1.00e5
<i>Yersinia enterocolitica</i>	<b>3.94e0</b>		<1.00e5

### Parasitic Pathogens

Parasitic Pathogens	Result		Normal
<i>Cryptosporidium</i>	<dl		<1.00e6
<i>Entamoeba histolytica</i>	<dl		<1.00e4
<i>Giardia</i>	<dl		<5.00e3

### Viral Pathogens

Viral Pathogens	Result		Normal
Adenovirus 40/41	<dl		<1.00e10
Norovirus GI/II	<dl		<1.00e7

### H. pylori

	Result		Normal
<i>Helicobacter pylori</i>	<dl		<1.0e3
Virulence Factor, babA	N/A		Negative
Virulence Factor, cagA	N/A		Negative
Virulence Factor, dupA	N/A		Negative
Virulence Factor, iceA	N/A		Negative
Virulence Factor, oipA	N/A		Negative
Virulence Factor, vacA	N/A		Negative
Virulence Factor, virB	N/A		Negative
Virulence Factor, virD	N/A		Negative

### Normal Bacterial Flora

	Result		Normal
<i>Bacteroides fragilis</i>	<b>1.2e11</b>		1.60e9 - 2.50e11
<i>Bifidobacterium</i> spp.	<b>4.9e10</b>		>6.70e7

<i>Enterococcus spp.</i>	<b>1.9e9</b>	<b>High</b>	1.9e5 - 2.00e8
<i>Escherichia spp.</i>	<b>2.5e9</b>		3.70e6 - 3.80e9
<i>Lactobacillus spp.</i>	<b>8.4e6</b>		8.6e5 - 6.20e8
<i>Clostridium spp.</i>	<b>7.38e5</b>		1.20e3 - 1.00e6
<i>Enterobacter spp.</i>	<b>1.72e10</b>	<b>High</b>	1.00e6 - 5.00e7

<b>Phyla Microbiota</b>	Result		Normal
<i>Bacteroidetes</i>	<b>5.97e12</b>	<b>High</b>	8.61e11 - 3.31e12
<i>Firmicutes</i>	<b>1.80e11</b>		5.70e10 - 3.04e11
<i>Firmicutes:Bacteroidetes Ratio</i>	<b>0.03</b>		<1.00

### Opportunistic Bacteria

<b>Additional Dysbiotic/Overgrowth Bacteria</b>	Result		Normal
<i>Bacillus spp.</i>	<b>4.47e5</b>	<b>High</b>	<1.50e5
<i>Enterococcus faecalis</i>	<b>1.00e6</b>	<b>High</b>	<1.00e4
<i>Enterococcus faecium</i>	<b>3.24e5</b>	<b>High</b>	<1.00e4
<i>Morganella spp.</i>	<b>7.30e5</b>	<b>High</b>	<1.00e3
<i>Pseudomonas spp.</i>	<dl		<1.00e4
<i>Pseudomonas aeruginosa</i>	<dl		<5.00e2
<i>Staphylococcus spp.</i>	<dl		<1.00e4
<i>Staphylococcus aureus</i>	<b>1.12e1</b>		<5.00e2
<i>Streptococcus spp.</i>	<b>8.57e2</b>		<1.00e3

<b>Potential Autoimmune Triggers</b>	Result		Normal
<i>Citrobacter spp.</i>	<b>1.42e0</b>		<5.00e6
<i>Citrobacter freundii</i>	<b>5.76e7</b>	<b>High</b>	<5.00e5
<i>Klebsiella spp.</i>	<b>5.83e5</b>	<b>High</b>	<5.00e3
<i>Klebsiella pneumoniae</i>	<dl		<5.00e4
<i>M. avium subsp. paratuberculosis</i>	<dl		<5.00e3
<i>Prevotella copri</i>	<dl		<1.00e7
<i>Proteus spp.</i>	<b>2.88e6</b>	<b>High</b>	<5.00e4
<i>Proteus mirabilis</i>	<b>2.86e5</b>	<b>High</b>	<1.00e3

### Fungi/Yeast

	Result		Normal
<i>Candida spp.</i>	<b>5.90e1</b>		<5.00e3
<i>Candida albicans</i>	<dl		<5.00e2
<i>Geotrichum spp.</i>	<dl		<3.00e2
<i>Microsporidium spp.</i>	<dl		<5.00e3
<i>Rodotorula spp.</i>	<dl		<1.00e3

### Viruses

	Result		Normal
<i>Cytomegalovirus</i>	<dl		<1.00e5
<i>Epstein Barr Virus</i>	<dl		<1.00e7

## Parasites

Protozoa	Result	Normal
<i>Blastocystis hominis</i>	<dl	<2.00e3
<i>Chilomastix mesnili</i>	<dl	<1.00e5
<i>Cyclospora spp.</i>	<dl	<5.00e4
<i>Dientamoeba fragilis</i>	<dl	<1.00e5
<i>Endolimax nana</i>	<dl	<1.00e4
<i>Entamoeba coli</i>	<dl	<5.00e6
<i>Pentatrichomonas hominis</i>	<dl	<1.00e2

Worms	Result	Normal
<i>Ancylostoma duodenale</i>	Not Detected	<Not Detected
<i>Ascaris lumbricoides</i>	Not Detected	<Not Detected
<i>Necator americanus</i>	Not Detected	<Not Detected
<i>Trichuris trichiura</i>	Not Detected	<Not Detected
<i>Taenia spp.</i>	Not Detected	<Not Detected

## Intestinal Health

Digestion	Result	Normal
Elastase-1	339	>200 ug/g
Steatocrit	<dl	<15 %

GI Markers	Result	Normal
b-Glucuronidase	2891 High	<2486 U/mL
Occult Blood - FIT	6	<10 ug/g

Immune Response	Result	Normal
Secretory IgA	285 Low	510 - 2010 ug/g
Anti-gliadin IgA	70	0 - 157 U/L

Inflammation	Result	Normal
Calprotectin	197 High	<50 ug/g

Add-on Test	Result	Normal
Zonulin	50.3	<107 ng/g

## Antibiotic Resistance Genes, phenotypes

### Helicobacter

Clarithromycin	Result	Expected Result
	Negative	Absent

A2142C	N/A	A2142G	N/A	A2143G	N/A
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Fluoroquinolones	Result	Expected Result
	Negative	Absent

gyrA N87K	N/A	gyrA D91N	N/A	gyrA D91G	N/A
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gyrB S479N	N/A	gyrB R484K	N/A
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