

Pathogens

Bacterial Pathogens	Result	Normal
<i>Campylobacter</i>	<dl	<1.00e3
<i>C. difficile</i> , Toxin A	<dl	<1.00e3
<i>C. difficile</i> , Toxin B	<dl	<1.00e3
<i>Enterohemorrhagic E. coli</i>	<dl	<1.00e3
<i>E. coli</i> O157	<dl	<1.00e3
<i>Enteroinvasive E. coli/Shigella</i>	<dl	<1.00e2
<i>Enterotoxigenic E. coli</i> LT/ST	1.18e3	High
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>	<dl	<1.00e5
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	Result	Normal
<i>Adenovirus</i> 40/41	<dl	<1.00e10
<i>Norovirus</i> 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>	6.6e9	1.60e9 - 2.50e11
<i>Bifidobacterium spp.</i>	3.2e9	>6.70e7
<i>Enterococcus spp.</i>	3.4e6	1.9e5 - 2.00e8
<i>Escherichia spp.</i>	2.0e7	3.70e6 - 3.80e9
<i>Lactobacillus spp.</i>	4.2e7	8.6e5 - 6.20e8
<i>Clostridium spp.</i>	8.09e5	1.20e3 - 1.00e6
<i>Enterobacter spp.</i>	1.34e7	1.00e6 - 5.00e7

Phyla Microbiota

	Result	Normal
<i>Bacteroidetes</i>	2.59e12	8.61e11 - 3.31e12
<i>Firmicutes</i>	3.53e10	5.70e10 - 3.04e11
<i>Firmicutes:Bacteroidetes Ratio</i>	0.01	<1.00

Opportunistic Bacteria

Additional Dysbiotic/Overgrowth Bacteria	Result		Normal
<i>Bacillus spp.</i>	4.93e4		<1.50e5
<i>Enterococcus faecalis</i>	1.07e4	High	<1.00e4
<i>Enterococcus faecium</i>	7.02e3		<1.00e4
<i>Morganella spp.</i>	<dl		<1.00e3
<i>Pseudomonas spp.</i>	9.18e2		<1.00e4
<i>Pseudomonas aeruginosa</i>	<dl		<5.00e2
<i>Staphylococcus spp.</i>	<dl		<1.00e4
<i>Staphylococcus aureus</i>	2.39e0		<5.00e2
<i>Streptococcus spp.</i>	4.89e3	High	<1.00e3

Potential Autoimmune Triggers

	Result		Normal
<i>Citrobacter spp.</i>	<dl		<5.00e6
<i>Citrobacter freundii</i>	<dl		<5.00e5
<i>Klebsiella spp.</i>	<dl		<5.00e3
<i>Klebsiella pneumoniae</i>	5.39e2		<5.00e4
<i>M. avium subsp. paratuberculosis</i>	<dl		<5.00e3
<i>Prevotella copri</i>	2.47e8	High	<1.00e7
<i>Proteus spp.</i>	<dl		<5.00e4
<i>Proteus mirabilis</i>	<dl		<1.00e3

Fungi/Yeast

	Result		Normal
<i>Candida spp.</i>	<dl		<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

	Result		Normal
Protozoa			
<i>Blastocystis hominis</i>	2.65e4	High	<2.00e3
<i>Chilomastix mesnili</i>	<dl		<1.00e5
<i>Cyclospora spp.</i>	2.13e4		<5.00e4
<i>Dientamoeba fragilis</i>	8.50e3		<1.00e5
<i>Endolimax nana</i>	2.93e4	High	<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

	Result		Normal
Digestion			
Elastase-1	263		>200 ug/g
Steatocrit	20	High	<15 %

GI Markers

	Result		Normal
b-Glucuronidase	3232	High	<2486 U/mL
Occult Blood - FIT	0		<10 ug/g

Immune Response

	Result		Normal
Secretory IgA	2009		510 - 2010 ug/g
Anti-gliadin IgA	109		0 - 157 U/L

Inflammation

	Result		Normal
Calprotectin	334	High	<173 ug/g

Add-on Test

	Result		Normal
Zonulin	190.9	High	<107 ng/g

Antibiotic Resistance Genes, phenotypes

Helicobacter		Result		Expected Result	
Clarithromycin		Negative		Absent	
A2142C	N/A	A2142G	N/A	A2143G	N/A
Fluoroquinolones		Negative		Absent	
gyrA N87K	N/A	gyrA D91N	N/A	gyrA D91G	N/A
gyrB S479N	N/A	gyrB R484K	N/A		

The assays were developed and the performance characteristics determined by Diagnostic Solutions Laboratory.

CLIA# 11D-2097795
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Antibiotic Resistance Genes, genotypes

Universal Microbiota Resistance Genes

b-lactamase		Positive		Absent	
TEM-70	Absence	CTXM3	Absence	SHV-24	Absence
VEB-1	Absence	OXA-30	Absence	CTXM35	Absence
toho-3	Absence	CTXM63	Absence	PER-1	Absence
PER-2	Absence	GES-3	Presence	NDM-1	Absence
Fluoroquinolones		Negative		Absent	
qnrA2	Absence	qnrB	Absence		
Macrolides		Positive		Absent	
ermA	Absence	ermB	Presence	ermC	Absence
mefE	Presence				
Vancomycin		Negative		Absent	
vanA1	Absence	vanA2	Absence	vanB	Absence
vanC	Absence				