

PATHOGENS

The testing includes pathogens (bacterial, parasitic and viral) commonly known to cause gastroenteritis. Note that not all individuals with positive findings will present with symptoms. Many factors, including the health of the individual (such as immune health, digestive function, and microbiome balance), the transient nature of most pathogens, and the presence and expression of virulence factors, all contribute to pathogen virulence and individual symptoms.

BACTERIAL PATHOGENS	Split 1	Split 2	Reference
<i>Campylobacter</i>	<dl	<dl	< 1.00e3
<i>C. difficile</i> Toxin A	<dl	<dl	< 1.00e3
<i>C. difficile</i> Toxin B	<dl	<dl	< 1.00e3
<i>Enterohemorrhagic E. coli</i>	<dl	<dl	< 1.00e3
<i>E. coli</i> O157	<dl	<dl	< 1.00e3
Enteroinvasive <i>E. coli</i> / <i>Shigella</i>	<dl	<dl	< 1.00e3
Enterotoxigenic <i>E. coli</i> LT/ST	<dl	<dl	< 1.00e3
Shiga-like Toxin <i>E. coli</i> stx1	<dl	<dl	< 1.00e3
Shiga-like Toxin <i>E. coli</i> stx2	<dl	<dl	< 1.00e3
<i>Salmonella</i>	<dl	<dl	< 1.00e4
<i>Vibrio cholerae</i>	<dl	<dl	< 1.00e5
<i>Yersinia enterocolitica</i>	<dl	<dl	< 1.00e5
PARASITIC PATHOGENS			
<i>Cryptosporidium</i>	<dl	<dl	< 1.00e6
<i>Entamoeba histolytica</i>	<dl	<dl	< 1.00e4
<i>Giardia</i>	1.40e3	<dl	< 5.00e3
VIRAL PATHOGENS			
Adenovirus 40/41	<dl	<dl	< 1.00e10
Norovirus GI/II	<dl	<dl	< 1.00e7

HELICOBACTER PYLORI

H. PYLORI & VIRULENCE FACTORS

	Split 1	Split 2	Reference
<i>Helicobacter pylori</i>	7.31e2	1.41e2	< 1.00e3
Virulence Factor, babA	Negative	N/A	Negative
Virulence Factor, cagA	Negative	N/A	Negative
Virulence Factor, dupA	Negative	N/A	Negative
Virulence Factor, iceA	Negative	N/A	Negative
Virulence Factor, oipA	Negative	N/A	Negative
Virulence Factor, vacA	Negative	N/A	Negative
Virulence Factor, virB	Negative	N/A	Negative
Virulence Factor, virD	Negative	N/A	Negative

COMMENSAL/KEYSTONE BACTERIA

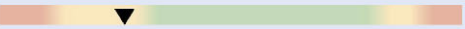

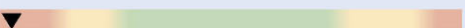

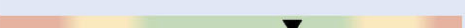

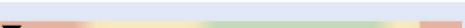

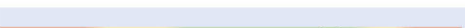

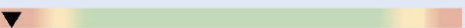

COMMENSAL BACTERIA

	Split 1	Split 2	Reference
<i>Bacteroides fragilis</i>	4.27e9	1.12e9 L	1.6e9 - 2.5e11
<i>Bifidobacterium</i> spp.	7.42e9	8.84e8	> 6.7e7
<i>Enterococcus</i> spp.	6.50e4 L	5.16e4 L	1.9e5 - 2.0e8
<i>Escherichia</i> spp.	1.35e8	7.99e6	3.7e6 - 3.8e9
<i>Lactobacillus</i> spp.	5.06e7	1.68e7	8.6e5 - 6.2e8
<i>Enterobacter</i> spp.	2.07e7	4.30e6	1.0e6 - 5.0e7
<i>Akkermansia muciniphila</i>	<dl L	<dl L	1.0e1 - 8.2e6
<i>Faecalibacterium prausnitzii</i>	1.61e6	3.85e4	1.0e3 - 5.0e8
<i>Roseburia</i> spp.	4.50e9	5.08e8	5.0e7 - 2.0e10

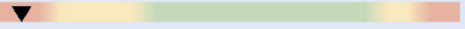

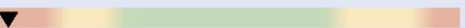



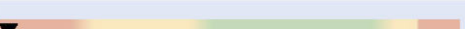
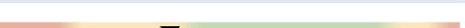
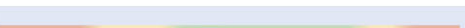

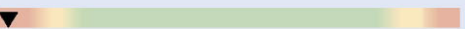

BACTERIAL PHYLA

<i>Bacteroidetes</i>	1.09e12	2.80e11 L	8.6e11 - 3.3e12
<i>Firmicutes</i>	3.54e10 L	1.96e10 L	5.7e10 - 3.0e11
<i>Firmicutes:Bacteroidetes Ratio</i>	0.03	0.07	< 1.0

Split 1

COMMENSAL/KEYSTONE BACTERIA			
COMMENSAL BACTERIA	Result		Reference
<i>Bacteroides fragilis</i>	4.27e9		1.6e9 - 2.5e11
<i>Bifidobacterium</i> spp.	7.42e9		> 6.7e7
<i>Enterococcus</i> spp.	6.50e4 L		1.9e5 - 2.0e8
<i>Escherichia</i> spp.	1.35e8		3.7e6 - 3.8e9
<i>Lactobacillus</i> spp.	5.06e7		8.6e5 - 6.2e8
<i>Enterobacter</i> spp.	2.07e7		1.0e6 - 5.0e7
<i>Akkermansia muciniphila</i>	<dl L		1.0e1 - 8.2e6
<i>Faecalibacterium prausnitzii</i>	1.61e6		1.0e3 - 5.0e8
<i>Roseburia</i> spp.	4.50e9		5.0e7 - 2.0e10
BACTERIAL PHYLA			
<i>Bacteroidetes</i>	1.09e12		8.6e11 - 3.3e12
<i>Firmicutes</i>	3.54e10 L		5.7e10 - 3.0e11
<i>Firmicutes:Bacteroidetes Ratio</i>	0.03		< 1.0

Split 2

COMMENSAL/KEYSTONE BACTERIA			
COMMENSAL BACTERIA	Result		Reference
<i>Bacteroides fragilis</i>	1.12e9 L		1.6e9 - 2.5e11
<i>Bifidobacterium</i> spp.	8.84e8		> 6.7e7
<i>Enterococcus</i> spp.	5.16e4 L		1.9e5 - 2.0e8
<i>Escherichia</i> spp.	7.99e6		3.7e6 - 3.8e9
<i>Lactobacillus</i> spp.	1.68e7		8.6e5 - 6.2e8
<i>Enterobacter</i> spp.	4.30e6		1.0e6 - 5.0e7
<i>Akkermansia muciniphila</i>	<dl L		1.0e1 - 8.2e6
<i>Faecalibacterium prausnitzii</i>	3.85e4		1.0e3 - 5.0e8
<i>Roseburia</i> spp.	5.08e8		5.0e7 - 2.0e10
BACTERIAL PHYLA			
<i>Bacteroidetes</i>	2.80e11 L		8.6e11 - 3.3e12
<i>Firmicutes</i>	1.96e10 L		5.7e10 - 3.0e11
<i>Firmicutes:Bacteroidetes Ratio</i>	0.07		< 1.0

OPPORTUNISTIC/OVERGROWTH MICROBES

DYSBIOTIC & OVERGROWTH BACTERIA

	Split 1	Split 2	Reference
<i>Bacillus</i> spp.	8.81e5	5.68e5	< 1.76e6
<i>Enterococcus faecalis</i>	<dl	<dl	< 1.00e4
<i>Enterococcus faecium</i>	4.46e3	1.20e3	< 1.00e4
<i>Morganella</i> spp.	<dl	<dl	< 1.00e3
<i>Pseudomonas</i> spp.	<dl	<dl	< 1.00e4
<i>Pseudomonas aeruginosa</i>	<dl	<dl	< 5.00e2
<i>Staphylococcus</i> spp.	<dl	<dl	< 1.00e4
<i>Staphylococcus aureus</i>	3.02e2	1.20e2	< 5.00e2
<i>Streptococcus</i> spp.	2.16e3 High ↑	<dl	< 1.00e3

COMMENSAL OVERGROWTH MICROBES

<i>Desulfovibrio</i> spp.	2.95e7	7.53e6	< 7.98e8
<i>Methanobacteriaceae</i> (family)	1.76e8	1.54e7	< 3.38e8

INFLAMMATORY & AUTOIMMUNE-RELATED BACTERIA

<i>Citrobacter</i> spp.	6.81e9 High ↑	8.74e8 High ↑	< 5.00e6
<i>Citrobacter freundii</i>	<dl	<dl	< 5.00e5
<i>Klebsiella</i> spp.	<dl	<dl	< 5.00e3
<i>Klebsiella pneumoniae</i>	<dl	<dl	< 5.00e4
<i>M. avium</i> subsp. <i>paratuberculosis</i>	<dl	<dl	< 5.00e3
<i>Proteus</i> spp.	<dl	<dl	< 5.00e4
<i>Proteus mirabilis</i>	<dl	<dl	< 1.00e3

COMMENSAL INFLAMMATORY & AUTOIMMUNE-RELATED

<i>Enterobacter</i> spp.	2.07e7	4.30e6	< 5.00e7
<i>Escherichia</i> spp.	1.35e8	7.99e6	< 3.80e9
<i>Fusobacterium</i> spp.	5.12e4	7.73e3	< 1.00e8
<i>Prevotella</i> spp.	6.79e6	1.67e6	< 1.00e8

FUNGI/YEAST

FUNGI/YEAST

	Split 1	Split 2	Reference
<i>Candida</i> spp.	<dl	<dl	< 5.00e3
<i>Candida albicans</i>	<dl	<dl	< 5.00e2
<i>Geotrichum</i> spp.	<dl	<dl	< 3.00e2
<i>Microsporidium</i> spp.	<dl	<dl	< 5.00e3
<i>Rhodotorula</i> spp.	<dl	<dl	< 1.00e3

VIRUSES

VIRUSES

	Split 1	Split 2	Reference
Cytomegalovirus	<dl	<dl	< 1.00e5
Epstein-Barr Virus	<dl	<dl	< 1.00e7

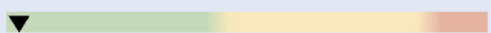


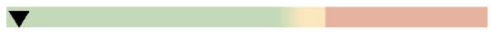
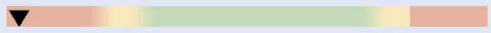

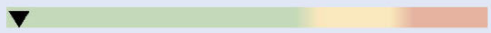

PARASITES

PROTOZOA	Split 1	Split 2	Reference
<i>Blastocystis hominis</i>	<dl	<dl	< 2.00e3
<i>Chilomastix mesnili</i>	<dl	<dl	< 1.00e5
<i>Cyclospora</i> spp.	<dl	<dl	< 5.00e4
<i>Dientamoeba fragilis</i>	<dl	<dl	< 1.00e5
<i>Endolimax nana</i>	<dl	<dl	< 1.00e4
<i>Entamoeba coli</i>	<dl	<dl	< 5.00e6
<i>Pentatrichomonas hominis</i>	<dl	<dl	< 1.00e2
WORMS			
<i>Ancylostoma duodenale</i>	Not Detected	Not Detected	Not Detected
<i>Ascaris lumbricoides</i>	Not Detected	Not Detected	Not Detected
<i>Necator americanus</i>	Not Detected	Not Detected	Not Detected
<i>Trichuris trichiura</i>	Not Detected	Not Detected	Not Detected
<i>Taenia</i> spp.	Not Detected	Not Detected	Not Detected

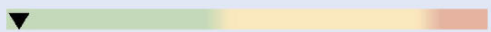



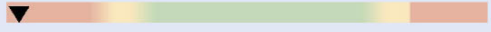

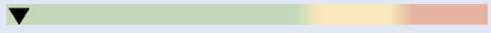

INTESTINAL HEALTH MARKERS

DIGESTION	Split 1	Split 2	Reference
Steatocrit	<dl	<dl	< 15 %
Elastase-1	>750	>750	> 200 ug/g
GI MARKERS			
β-Glucuronidase	706	807	< 2486 U/mL
Occult Blood - FIT	<dl	<dl	< 10 ug/g
IMMUNE RESPONSE			
Secretory IgA	344 L	284 L	510 - 2010 ug/g
Anti-gliadin IgA	61	138	< 175 U/L
Eosinophil Activation Protein (EDN, EPX)	0.06	0.18	< 2.34 ug/g
INFLAMMATION			
Calprotectin	1	6	< 173 ug/g

Split 1

INTESTINAL HEALTH MARKERS			
DIGESTION	Result		Reference
Steatocrit	<dl		< 15 %
Elastase-1	>750		> 200 ug/g
GI MARKERS			
β-Glucuronidase	706		< 2486 U/mL
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IMMUNE RESPONSE			
Secretory IgA	344 L		510 - 2010 ug/g
Anti-gliadin IgA	61		< 175 U/L
Eosinophil Activation Protein (EDN, EPX)	0.06		< 2.34 ug/g
INFLAMMATION			
Calprotectin	1		< 173 ug/g

Split 2

INTESTINAL HEALTH MARKERS			
DIGESTION	Result		Reference
Steatocrit	<dl		< 15 %
Elastase-1	>750		> 200 ug/g
GI MARKERS			
β-Glucuronidase	807		< 2486 U/mL
Occult Blood - FIT	<dl		< 10 ug/g
IMMUNE RESPONSE			
Secretory IgA	284 L		510 - 2010 ug/g
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Calprotectin	6		< 173 ug/g