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
Campylobacter	<dl	<dl	< 1.00e3
C. difficile Toxin A	<dl	<dl	< 1.00e3
C. difficile Toxin B	<dl	<dl	< 1.00e3
Enterohemorrhagic E. coli	<dl	<dl	< 1.00e3
E. coli O157	<dl	<dl	< 1.00e3
Enteroinvasive *E. coli/Shigella*	<dl	<dl	< 1.00e3
Enterotoxigenic *E. coli* LT/ST	<dl	<dl	< 1.00e3
Shiga-like Toxin *E. coli* stx1	<dl	<dl	< 1.00e3
Shiga-like Toxin *E. coli* stx2	<dl	<dl	< 1.00e3
Salmonella	<dl	<dl	< 1.00e4
Vibrio cholerae	<dl	<dl	< 1.00e5
Yersinia enterocolitica	<dl	<dl	< 1.00e5
PARASITIC PATHOGENS			
Cryptosporidium	<dl	<dl	< 1.00e6
Entamoeba histolytica	<dl	<dl	< 1.00e4
Giardia	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
Helicobacter pylori	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
Bacteroides fragilis	4.27e9	1.12e9 L	1.6e9 - 2.5e11
Bifidobacterium spp.	7.42e9	8.84e8	> 6.7e7
Enterococcus spp.	6.50e4 L	5.16e4 L	1.9e5 - 2.0e8
Escherichia spp.	1.35e8	7.99e6	3.7e6 - 3.8e9
Lactobacillus spp.	5.06e7	1.68e7	8.6e5 - 6.2e8
Enterobacter spp.	2.07e7	4.30e6	1.0e6 - 5.0e7
Akkermansia muciniphila	<dl L	<dl L	1.0e1 - 8.2e6
Faecalibacterium prausnitzii	1.61e6	3.85e4	1.0e3 - 5.0e8
Roseburia spp.	4.50e9	5.08e8	5.0e7 - 2.0e10
BACTERIAL PHYLA			
Bacteroidetes	1.09e12	2.80e11 L	8.6e11 - 3.3e12
Firmicutes	3.54e10 L	1.96e10 L	5.7e10 - 3.0e11
Firmicutes:Bacteroidetes Ratio	0.03	0.07	< 1.0

Split 1

COMMENSAL/KEYSTONE BACTERIA

COMMENSAL BACTERIA	Result	Reference
Bacteroides fragilis	4.27e9	1.6e9 - 2.5e11
Bifidobacterium spp.	7.42e9	> 6.7e7
Enterococcus spp.	6.50e4 L	1.9e5 - 2.0e8
Escherichia spp.	1.35e8	3.7e6 - 3.8e9
Lactobacillus spp.	5.06e7	8.6e5 - 6.2e8
Enterobacter spp.	2.07e7	1.0e6 - 5.0e7
Akkermansia muciniphila	<dl L	1.0e1 - 8.2e6
Faecalibacterium prausnitzii	1.61e6	1.0e3 - 5.0e8
Roseburia spp.	4.50e9	5.0e7 - 2.0e10

BACTERIAL PHYLA		
Bacteroidetes	1.09e12	8.6e11 - 3.3e12
Firmicutes	3.54e10 L	5.7e10 - 3.0e11
Firmicutes:Bacteroidetes Ratio	0.03	< 1.0

Split 2

COMMENSAL/KEYSTONE BACTERIA

COMMENSAL BACTERIA	Result	Reference
Bacteroides fragilis	1.12e9 L	1.6e9 - 2.5e11
Bifidobacterium spp.	8.84e8	> 6.7e7
Enterococcus spp.	5.16e4 L	1.9e5 - 2.0e8
Escherichia spp.	7.99e6	3.7e6 - 3.8e9
Lactobacillus spp.	1.68e7	8.6e5 - 6.2e8
Enterobacter spp.	4.30e6	1.0e6 - 5.0e7
Akkermansia muciniphila	<dl L	1.0e1 - 8.2e6
Faecalibacterium prausnitzii	3.85e4	1.0e3 - 5.0e8
Roseburia spp.	5.08e8	5.0e7 - 2.0e10

BACTERIAL PHYLA		
Bacteroidetes	2.80e11 L	8.6e11 - 3.3e12
Firmicutes	1.96e10 L	5.7e10 - 3.0e11
Firmicutes:Bacteroidetes Ratio	0.07	< 1.0

OPPORTUNISTIC/OVERGROWTH MICROBES

DYSBIOTIC & OVERGROWTH BACTERIA	Split 1		Split 2		Reference
Bacillus spp.	8.81e5		5.68e5		< 1.76e6
Enterococcus faecalis	<dl		<dl		< 1.00e4
Enterococcus faecium	4.46e3		1.20e3		< 1.00e4
Morganella spp.	<dl		<dl		< 1.00e3
Pseudomonas spp.	<dl		<dl		< 1.00e4
Pseudomonas aeruginosa	<dl		<dl		< 5.00e2
Staphylococcus spp.	<dl		<dl		< 1.00e4
Staphylococcus aureus	3.02e2		1.20e2		< 5.00e2
Streptococcus spp.	**2.16e3**	**High ↑**	<dl		< 1.00e3
COMMENSAL OVERGROWTH MICROBES					
Desulfovibrio spp.	2.95e7		7.53e6		< 7.98e8
Methanobacteriaceae (family)	1.76e8		1.54e7		< 3.38e8
INFLAMMATORY & AUTOIMMUNE-RELATED BACTERIA					
Citrobacter spp.	**6.81e9**	**High ↑**	**8.74e8**	**High ↑**	< 5.00e6
Citrobacter freundii	<dl		<dl		< 5.00e5
Klebsiella spp.	<dl		<dl		< 5.00e3
Klebsiella pneumoniae	<dl		<dl		< 5.00e4
M. avium subsp. paratuberculosis	<dl		<dl		< 5.00e3
Proteus spp.	<dl		<dl		< 5.00e4
Proteus mirabilis	<dl		<dl		< 1.00e3
COMMENSAL INFLAMMATORY & AUTOIMMUNE-RELATED					
Enterobacter spp.	2.07e7		4.30e6		< 5.00e7
Escherichia spp.	1.35e8		7.99e6		< 3.80e9
Fusobacterium spp.	5.12e4		7.73e3		< 1.00e8
Prevotella spp.	6.79e6		1.67e6		< 1.00e8

FUNGI/YEAST

FUNGI/YEAST	Split 1	Split 2	Reference
Candida spp.	<dl	<dl	< 5.00e3
Candida albicans	<dl	<dl	< 5.00e2
Geotrichum spp.	<dl	<dl	< 3.00e2
Microsporidium spp.	<dl	<dl	< 5.00e3
Rhodotorula 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
Blastocystis hominis	<dl	<dl	< 2.00e3
Chilomastix mesnili	<dl	<dl	< 1.00e5
Cyclospora spp.	<dl	<dl	< 5.00e4
Dientamoeba fragilis	<dl	<dl	< 1.00e5
Endolimax nana	<dl	<dl	< 1.00e4
Entamoeba coli	<dl	<dl	< 5.00e6
Pentatrichomonas hominis	<dl	<dl	< 1.00e2
WORMS			
Ancylostoma duodenale	Not Detected	Not Detected	Not Detected
Ascaris lumbricoides	Not Detected	Not Detected	Not Detected
Necator americanus	Not Detected	Not Detected	Not Detected
Trichuris trichiura	Not Detected	Not Detected	Not Detected
Taenia 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
Occult Blood - FIT	<dl	< 10 ug/g
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
Anti-gliadin IgA	138	< 175 U/L
Eosinophil Activation Protein (EDN, EPX)	0.18	< 2.34 ug/g
INFLAMMATION		
Calprotectin	6	< 173 ug/g