

TEST NAME: GI MAP plus Zonulin
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	<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>	<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
Adenovirus 40/41	<dl	<1.00e10
Norovirus GI/II	<dl	<1.00e7

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H. pylori

	Result	Normal
<i>Helicobacter pylori</i>	1.4e2	<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>	3.98e9	1.60e9 - 2.50e11
<i>Bifidobacterium spp.</i>	5.89e10	>6.70e7
<i>Enterococcus spp.</i>	5.95e7	1.9e5 - 2.00e8
<i>Escherichia spp.</i>	2.24e9	3.70e6 - 3.80e9
<i>Lactobacillus spp.</i>	1.46e7	8.6e5 - 6.20e8
<i>Clostridia (class)</i>	1.07e7	5.00e6 - 5.00e7
<i>Enterobacter spp.</i>	6.16e7	1.00e6 - 5.00e7
<i>Akkermansia muciniphila</i>	<dl	1.00e1 - 5.00e4
<i>Faecalibacterium prausnitzii</i>	3.04e5	1.00e3 - 5.00e8

Phyla Microbiota

	Result	Normal
<i>Bacteroidetes</i>	5.09e11	8.61e11 - 3.31e12
<i>Firmicutes</i>	1.26e11	5.70e10 - 3.04e11
<i>Firmicutes:Bacteroidetes Ratio</i>	0.25	<1.00

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Opportunistic Bacteria

Additional Dysbiotic/Overgrowth Bacteria

	Result		Normal
<i>Bacillus spp.</i>	8.24e6	High	<1.50e5
<i>Enterococcus faecalis</i>	2.87e4	High	<1.00e4
<i>Enterococcus faecium</i>	2.18e4	High	<1.00e4
<i>Morganella spp.</i>	<dl		<1.00e3
<i>Pseudomonas spp.</i>	<dl		<1.00e4
<i>Pseudomonas aeruginosa</i>	<dl		<5.00e2
<i>Staphylococcus spp.</i>	2.35e2		<1.00e4
<i>Staphylococcus aureus</i>	1.09e1		<5.00e2
<i>Streptococcus spp.</i>	2.29e4	High	<1.00e3
<i>Methanobacteriaceae</i> (family)	2.14e8		<5.00e9

Potential Autoimmune Triggers

	Result		Normal
<i>Citrobacter spp.</i>	2.42e4		<5.00e6
<i>Citrobacter freundii</i>	1.24e5		<5.00e5
<i>Klebsiella spp.</i>	<dl		<5.00e3
<i>Klebsiella pneumoniae</i>	1.48e4		<5.00e4
<i>M. avium subsp. paratuberculosis</i>	<dl		<5.00e3
<i>Prevotella spp.</i>	3.30e7		<1.00e8
<i>Proteus spp.</i>	<dl		<5.00e4
<i>Proteus mirabilis</i>	<dl		<1.00e3
<i>Fusobacterium spp.</i>	1.60e5		<1.00e8

Fungi/Yeast

	Result		Normal
<i>Candida spp.</i>	3.50e2		<5.00e3
<i>Candida albicans</i>	<dl		<5.00e2
<i>Geotrichum spp.</i>	<dl		<3.00e2
<i>Microsporidium spp.</i>	<dl		<5.00e3
<i>Rhodotorula spp.</i>	<dl		<1.00e3

Viruses

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

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Parasites

Protozoa	Result	Normal
<i>Blastocystis hominis</i>	1.34e3	<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

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
Steatocrit	<dl	<15 %
Elastase-1	190 Low	>200 ug/g

GI Markers	Result	Normal
b-Glucuronidase	345	<2486 U/mL
Occult Blood - FIT	0	<10 ug/g

Immune Response	Result	Normal
Secretory IgA	210 Low	510 - 2010 ug/g
Anti-gliadin IgA	62	0 - 157 U/L

Inflammation	Result	Normal
Calprotectin	6	<173 ug/g

Add-on Test	Result	Normal
Zonulin	31.2	<107 ng/g

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Antibiotic Resistance Genes, phenotypes

Helicobacter Result Expected Result

Amoxicillin N/A Negative

A926G N/A AGA926-928TTC N/A

Clarithromycin N/A Negative

A2142G N/A A2142C N/A A2143G N/A

Fluoroquinolones N/A Negative

gyrA N87K N/A gyrA D91N N/A gyrA D91G N/A

gyrB S479N N/A gyrB R484K N/A

Tetracycline N/A Negative

PBP1A S414R N/A PBP1A T556S N/A PBP1A N562Y N/A