

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
Enterohemorrhagic <i>E. coli</i>	2.03e3 High	<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>	<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>	4.6e2	<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>	9.58e10		1.60e9 - 2.50e11
<i>Bifidobacterium spp.</i>	7.10e12		>6.70e7
<i>Enterococcus spp.</i>	1.33e6		1.9e5 - 2.00e8
<i>Escherichia spp.</i>	5.89e7		3.70e6 - 3.80e9
<i>Lactobacillus spp.</i>	1.65e7		8.6e5 - 6.20e8
<i>Clostridia (class)</i>	1.53e6	Low	5.00e6 - 5.00e7
<i>Enterobacter spp.</i>	1.81e6		1.00e6 - 5.00e7
<i>Akkermansia muciniphila</i>	3.22e4		1.00e1 - 5.00e4
<i>Faecalibacterium prausnitzii</i>	4.02e2	Low	1.00e3 - 5.00e8

Phyla Microbiota

	Result		Normal
<i>Bacteroidetes</i>	3.57e11	Low	8.61e11 - 3.31e12
<i>Firmicutes</i>	2.34e11		5.70e10 - 3.04e11
<i>Firmicutes:Bacteroidetes Ratio</i>	0.66		<1.00

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Opportunistic Bacteria
Additional Dysbiotic/Overgrowth Bacteria

	Result		Normal
<i>Bacillus</i> spp.	5.09e6	High	<1.50e5
<i>Enterococcus faecalis</i>	1.37e4	High	<1.00e4
<i>Enterococcus faecium</i>	3.58e4	High	<1.00e4
<i>Morganella</i> spp.	<dl		<1.00e3
<i>Pseudomonas</i> spp.	3.92e3		<1.00e4
<i>Pseudomonas aeruginosa</i>	<dl		<5.00e2
<i>Staphylococcus</i> spp.	<dl		<1.00e4
<i>Staphylococcus aureus</i>	4.16e2		<5.00e2
<i>Streptococcus</i> spp.	<dl		<1.00e3
<i>Methanobacteriaceae</i> (family)	1.86e8		<5.00e9

Potential Autoimmune Triggers

	Result		Normal
<i>Citrobacter</i> spp.	<dl		<5.00e6
<i>Citrobacter freundii</i>	<dl		<5.00e5
<i>Klebsiella</i> spp.	7.96e3	High	<5.00e3
<i>Klebsiella pneumoniae</i>	1.63e3		<5.00e4
<i>M. avium</i> subsp. <i>paratuberculosis</i>	<dl		<5.00e3
<i>Prevotella</i> spp.	9.65e6		<1.00e8
<i>Proteus</i> spp.	<dl		<5.00e4
<i>Proteus mirabilis</i>	4.14e4	High	<1.00e3
<i>Fusobacterium</i> spp.	5.90e6		<1.00e8

Fungi/Yeast

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

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	>750	>200 ug/g

GI Markers

GI Markers	Result	Normal
b-Glucuronidase	615	<2486 U/mL
Occult Blood - FIT	0	<10 ug/g

Immune Response

Immune Response	Result	Normal
Secretory IgA	498 Low	510 - 2010 ug/g
Anti-gliadin IgA	57	0 - 157 U/L

Inflammation

Inflammation	Result	Normal
Calprotectin	28	<173 ug/g

Add-on Test

Add-on Test	Result	Normal
Zonulin	25.6	<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

A2143G N/A A2142G N/A A2142C 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