

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>	1.9e3	High	<1.0e3
Virulence Factor, babA	Negative		Negative
Virulence Factor, cagA	Negative		Negative
Virulence Factor, dupA	Negative		Negative
Virulence Factor, iceA	Negative		Negative
Virulence Factor, oipA	Negative		Negative
Virulence Factor, vacA	Negative		Negative
Virulence Factor, virB	Negative		Negative
Virulence Factor, virD	Negative		Negative

Normal Bacterial Flora

	Result		Normal
<i>Bacteroides fragilis</i>	8.38e9		1.60e9 - 2.50e11
<i>Bifidobacterium spp.</i>	3.80e11		>6.70e7
<i>Enterococcus spp.</i>	1.52e6		1.9e5 - 2.00e8
<i>Escherichia spp.</i>	2.10e8		3.70e6 - 3.80e9
<i>Lactobacillus spp.</i>	2.16e7		8.6e5 - 6.20e8
<i>Clostridia (class)</i>	2.59e6	Low	5.00e6 - 5.00e7
<i>Enterobacter spp.</i>	8.88e6		1.00e6 - 5.00e7
<i>Akkermansia muciniphila</i>	1.16e5	High	1.00e1 - 5.00e4
<i>Faecalibacterium prausnitzii</i>	3.88e3		1.00e3 - 5.00e8

Phyla Microbiota

	Result		Normal
<i>Bacteroidetes</i>	2.27e11	Low	8.61e11 - 3.31e12
<i>Firmicutes</i>	4.00e11	High	5.70e10 - 3.04e11
<i>Firmicutes:Bacteroidetes Ratio</i>	1.76	High	<1.00

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Opportunistic Bacteria
Additional Dysbiotic/Overgrowth Bacteria

	Result		Normal
<i>Bacillus spp.</i>	4.28e6	High	<1.50e5
<i>Enterococcus faecalis</i>	6.99e2		<1.00e4
<i>Enterococcus faecium</i>	<dl		<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>	<dl		<1.00e4
<i>Staphylococcus aureus</i>	<dl		<5.00e2
<i>Streptococcus spp.</i>	6.69e3	High	<1.00e3
<i>Methanobacteriaceae</i> (family)	1.70e8		<5.00e9

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>	8.48e2		<5.00e4
<i>M. avium subsp. paratuberculosis</i>	<dl		<5.00e3
<i>Prevotella spp.</i>	4.41e6		<1.00e8
<i>Proteus spp.</i>	<dl		<5.00e4
<i>Proteus mirabilis</i>	<dl		<1.00e3
<i>Fusobacterium spp.</i>	6.30e5		<1.00e8

Fungi/Yeast

	Result		Normal
<i>Candida spp.</i>	3.09e2		<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>	<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	293	>200 ug/g

GI Markers

GI Markers	Result	Normal
b-Glucuronidase	1509	<2486 U/mL
Occult Blood - FIT	0	<10 ug/g

Immune Response

Immune Response	Result	Normal
Secretory IgA	210 Low	510 - 2010 ug/g
Anti-gliadin IgA	48	0 - 157 U/L

Inflammation

Inflammation	Result	Normal
Calprotectin	31	<173 ug/g

Add-on Test

Add-on Test	Result	Normal
Zonulin	43.7	<107 ng/g

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Antibiotic Resistance Genes, phenotypes

Helicobacter Result Expected Result

Amoxicillin Negative Negative

A926G Absent AGA926-928TTC Absent

Clarithromycin Negative Negative

A2142G Absent A2142C Absent A2143G Absent

Fluoroquinolones Negative Negative

gyrA N87K Absent gyrA D91N Absent gyrA D91G Absent

gyrB S479N Absent gyrB R484K Absent

Tetracycline Negative Negative

PBP1A S414R Absent PBP1A T556S Absent PBP1A N562Y Absent