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## COMPLETE MICROBIOME MAPPING-(GI -MAP)

### General Macroscopic Description

	Result	Range	Markers
Stool Colour	<b>Brown</b>		<b>Colour</b> - Brown is the colour of normal stool. Other colours may indicate abnormal GIT conditions.
Stool Form	<b>Formed</b>		<b>Form</b> -A formed stool is considered normal. Variations to this may indicate abnormal GIT conditions.
Mucous	<b>NEG</b>	< +	<b>Mucous</b> - Mucous production may indicate the presence of an infection, inflammation or malignancy.
Blood (Macro)	<b>NEG</b>	< +	<b>Blood (Macro)</b> - The presence of blood in the stool may indicate possible GIT ulcer, and must always be investigated immediately.

### GIT Functional Markers

	Result	Range	Units	
Calprotectin.	<b>20.0</b>	0.0 - 173	ug/g	
Pancreatic Elastase	<b>366.0</b>	> 200.0	ug/g	
Faecal Secretory IgA	<b>309.0 *L</b>	510.0 - 2010.0	ug/g	
Faecal Zonulin	<b>91.0</b>	0.0 - 107.0	ug/g	
Faecal B-Glucuronidase	<b>1479.0</b>	337.0 - 4433.0	u/g	
Anti-gliadin IgA	<b>69.00</b>	0.0 -157.00	U/L	
Steatocrit	<b>&lt;dl</b>	<15%		

### Microbiome Mapping Summary

**Parasites & Worms**

**Bacteria & Viruses**

Pseudomonas species  
 Pseudomonas aeruginosa.  
 Klebsiella species  
 Klebsiella pneumoniae.

**Fungi and Yeasts**

#### Key Phyla Microbiota

<b>Bacteroidetes</b>	<b>11.4</b>	8.6 - 33.1	x10 <sup>11</sup> org/g	
<b>Firmicutes</b>	<b>15.2</b>	5.7 - 30.4	x10 <sup>10</sup> org/g	
<b>Firmicutes:Bacteroidetes Ratio</b>	<b>0.2</b>	< 1.0	RATIO	



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**Parasites and Worms. Result Range Units**

**Parasitic Organisms**

Cryptosporidium.	<dl	< 1.0	x10 <sup>6</sup> org/g	
Entamoeba histolytica.	<dl	< 1.0	x10 <sup>4</sup> org/g	
Giardia lamblia.	<dl	< 5.0	x10 <sup>3</sup> org/g	
Blastocystis hominis.	<dl	< 2.0	x10 <sup>3</sup> org/g	
Dientamoeba fragilis.	<dl	< 1.0	x10 <sup>5</sup> org/g	
Entamoeba coli.	<dl	< 5.0	x10 <sup>6</sup> org/g	
Endolimax nana	<dl	< 1.0	x10 <sup>4</sup> org/g	
Pentatrichomonas hominis	<dl	< 1.0	x10 <sup>2</sup> org/g	

**Worms**

Ancylostoma duodenale, Roundworm	Not Detected
Ascaris lumbricoides, Roundworm	Not Detected
Necator americanus, Hookworm	Not Detected
Trichuris trichiura, Whipworm	Not Detected
Taenia species, Tapeworm	Not Detected

Comment: Not Detected results indicate the absence of detectable DNA in this sample for the worms reported.

**Opportunistic Bacteria/Overgr Result Range Units**

Bacillus species.	0.5	< 1.0	x10 <sup>5</sup> org/g	
Enterococcus faecalis	<dl	< 1.0	x10 <sup>4</sup> org/g	
Enterococcus faecium	0.3	< 1.0	x10 <sup>4</sup> org/g	
Morganella species	<dl	< 1.0	x10 <sup>3</sup> org/g	
Pseudomonas species	1.3 *H	< 1.0	x10 <sup>4</sup> org/g	
Pseudomonas aeruginosa.	38.2 *H	< 5.0	x10 <sup>2</sup> org/g	
Staphylococcus species	<dl	< 1.0	x10 <sup>4</sup> org/g	
Staphylococcus aureus	0.1	< 5.0	x10 <sup>2</sup> org/g	
Streptococcus species	0.4	< 1.0	x10 <sup>3</sup> org/g	

**Potential Autoimmune Triggers**

Citrobacter species.	<dl	< 5.0	x10 <sup>5</sup> org/g	
Citrobacter freundii.	<dl	< 5.0	x10 <sup>5</sup> org/g	
Klebsiella species	48.7 *H	< 5.0	x10 <sup>3</sup> org/g	
Klebsiella pneumoniae.	19.1 *H	< 5.0	x10 <sup>4</sup> org/g	
Prevotella copri	<dl	< 1.0	x10 <sup>7</sup> org/g	
Proteus species	2.2	< 5.0	x10 <sup>4</sup> org/g	
Proteus mirabilis.	0.3	< 1.0	x10 <sup>3</sup> org/g	

**Fungi & Yeast Result Range Units**

Candida species.	<dl	< 5.0	x10 <sup>3</sup> org/g	
Candida albicans.	<dl	< 5.0	x10 <sup>2</sup> org/g	
Geotrichum species.	<dl	< 3.0	x10 <sup>2</sup> org/g	
Microsporidium species	<dl	< 5.0	x10 <sup>3</sup> org/g	
Rhodotorula species.	<dl	< 1.0	x10 <sup>3</sup> org/g	

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Bacterial Pathogens	Result	Range	Units	
Campylobacter.	<dl	< 1.0	x10 <sup>3</sup> CFU/g	
C. difficile, Toxin A	<dl	< 1.0	x10 <sup>3</sup> CFU/g	
C. difficile, Toxin B	<dl	< 1.0	x10 <sup>3</sup> CFU/g	
Enterohemorrhagic E. coli	<dl	< 1.0	x10 <sup>3</sup> CFU/g	
E. coli O157	<dl	< 1.0	x10 <sup>2</sup> CFU/g	
Enteroinvasive E. coli/Shigella	<dl	< 1.0	x10 <sup>3</sup> CFU/g	
Enterotoxigenic E. coli LT/ST	<dl	< 1.0	x10 <sup>3</sup> CFU/g	
Shiga-like Toxin E. coli stx1	<dl	< 1.0	x10 <sup>3</sup> CFU/g	
Shiga-like Toxin E. coli stx2	<dl	< 1.0	x10 <sup>3</sup> CFU/g	
Salmonella.	<dl	< 1.0	x10 <sup>4</sup> CFU/g	
Vibrio cholerae	<dl	< 1.0	x10 <sup>5</sup> CFU/g	
Yersinia enterocolitica.	<dl	< 1.0	x10 <sup>5</sup> CFU/g	
Helicobacter pylori	<dl	< 1.0	x10 <sup>3</sup> CFU/g	

**Comment: Helico Pylori virulence factors will be listed below if detected POSITIVE**

H.pylori Virulence Factor, babA	Not Detected
H.pylori Virulence Factor, cagA	Not Detected
H.pylori Virulence Factor, dupA	Not Detected
H.pylori Virulence Factor, iceA	Not Detected
H.pylori Virulence Factor, oipA	Not Detected
H.pylori Virulence Factor, vacA	Not Detected
H.pylori Virulence Factor, virB	Not Detected
H.pylori Virulence Factor, virD	Not Detected

Viral Pathogens	Result	Range	Units	
Adenovirus 40/41	<dl	< 1.0	x10 <sup>10</sup> CFU/g	
Norovirus GI/II	<dl	< 1.0	x10 <sup>7</sup> CFU/g	

Normal Bacterial GUT Flora	Result	Range	Units	
Bacteroides fragilis	3.1	1.6 - 25.0	x10 <sup>9</sup> CFU/g	
Bifidobacterium species	64.0	> 6.7	x10 <sup>7</sup> CFU/g	
Enterococcus species	13.0	1.9 - 2000.0	x10 <sup>5</sup> CFU/g	
Escherichia species	160.0	3.7 - 38000	x10 <sup>6</sup> CFU/g	
Lactobacillus species	54.0	8.6 - 6200.0	x10 <sup>5</sup> CFU/g	
Clostridium species	580.0	1.2 - 1000.0	x10 <sup>3</sup> CFU/g	
Enterobacter species	143.0 *H	1.0 - 50.0	x10 <sup>6</sup> CFU/g	