

# GI-MAP™ DNA Stool Analysis



5895 Shiloh Rd Ste 101  
Alpharetta GA 30005  
877-485-5336

Patient: Jane Doe  
Collected: 07/24/2017  
DOB: 12/19/1971

Accession: 20170724-0102  
Received: 07/24/2017  
Completed: 07/31/2017

Ordered by: Diane Farhi, MD

## Pathogens

Bacterial Pathogens	Result	Expected
<i>Campylobacter</i>	<dl	<dl
<i>C. difficile</i> Toxin A	<dl	<dl
<i>C. difficile</i> Toxin B	<dl	<dl
Enterohemorrhagic <i>E. coli</i>	<dl	<dl
<i>E. coli</i> O157	<dl	<dl
Enteroinvasive <i>E. coli/Shigella</i>	<dl	<dl
Enteropathogenic <i>E. coli</i>	<dl	<dl
Enterotoxigenic <i>E. coli</i> LT/ST	<dl	<dl
Shiga-like Toxin <i>E. coli</i> stx1	<dl	<dl
Shiga-like Toxin <i>E. coli</i> stx2	<dl	<dl
<i>Salmonella</i>	6.4 e2	Low
<i>Vibrio cholerae</i>	<dl	<dl
<i>Yersinia enterocolitica</i>	<dl	<dl

## Parasitic Pathogens

<i>Cryptosporidium</i>	<dl	<dl
<i>Entamoeba histolytica</i>	<dl	<dl
<i>Giardia</i>	<dl	<dl

## Viral Pathogens

<i>Adenovirus 40/41</i>	2.3 e3	High	<dl
<i>Norovirus GI</i>	<dl		<dl
<i>Norovirus GII</i>	<dl		<dl

## H. pylori

<i>Helicobacter pylori</i>	4.03 E6	High	<7.0 E3
Virulence Factor, babA	Negative		Neg
Virulence Factor, cagA	Negative		Neg
Virulence Factor, cagPAI	Negative		Neg
Virulence Factor, dupA	Negative		Neg
Virulence Factor, iceA	Negative		Neg
Virulence Factor, opaA	Negative		Neg
Virulence Factor, vacA	Positive		Neg

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**Normal/Commensal Bacterial Flora**

<i>Bacteroides fragilis</i>	6.2 E7		5.0 E5 - 3.2 E9
<i>Bifidobacterium spp.</i>	9.5 E7	Low	>8.9 E9
<i>Clostridium spp.</i>	2.9 e5		1.2 E3 - 3.1 E5
<i>Enterobacter spp.</i>	2.0 e5		1.2 E3 - 3.1 E5
<i>Enterococcus spp.</i>	4.2 E8	High	1.0 E4 - 7.6 E7
<i>Escherichia spp.</i>	4.4 e7		1.0 E6 - 5.8 E9
<i>Lactobacillus spp.</i>	8.1 e3	Low	1.0 E5 - 2.8 E7

**Phyla Microbiota**

<i>Bacteroidetes</i>	1.3 e10		>5.0 e9
<i>Firmicutes</i>	2.4 e12		<5.0 e13
Firmicutes/Bacteroidetes Ratio	7.1		<8.0

**Opportunistic Bacteria**

Potential Autoimmune Triggers	Result		Range
<i>Citrobacter spp.</i>	8.1 E6	High	<1.0 E4
<i>Citrobacter freundii</i>	<dl		<1.0 E3
<i>Klebsiella spp.</i>	<dl		<1.0 E3
<i>Klebsiella pneumoniae</i>	<dl		<7.2 E3
<i>Mycobacterium avium</i>	<dl		<1.0 E3
<i>Prevotella copri</i>	6.7 e5	High	<1.0 E4
<i>Proteus spp.</i>	1.2 E3		<6.2 E3
<i>Proteus mirabilis</i>	<dl		<1.0 E3
<i>Yersinia enterocolytica</i> (from pg 1)	<dl		<1.0 E2

**Additional Dysbiotic/Overgrowth Bacteria**

<i>Bacillus spp.</i>	<dl		<1.0 E3
<i>Enterococcus faecalis</i>	<dl		<1.0 E3
<i>Enterococcus faecium</i>	<dl		<1.0 E3
<i>Morganella morganii</i>	<dl		<1.0 E3
<i>Pseudomonas spp.</i>	1.2 E3		<2.5 E3
<i>Pseudomonas aeruginosa</i>	5.3 E5	High	<1.0 E3
<i>Staphylococcus spp.</i>	<dl		<1.0 E4
<i>Staphylococcus aureus</i>	9.2 E4	High	<1.0 E3
<i>Streptococcus spp.</i>	<dl		<1.0 E3

**Fungi/yeast:**

<i>Candida albicans</i>	8.7 e5	High	<1.0 E3
<i>Candida spp.</i>	<dl		<1.0 E3
<i>Geotricum spp.</i>	<dl		<1.0 E3
<i>Microsporidia spp.</i>	<dl		<1.0 E3
<i>Rhodoturula spp.</i>	4.1 e2		<1.0 E3
<i>Trichosporon spp.</i>	<dl		<1.0 E3

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**Viruses****Opportunistic Viruses**

<i>CMV- Cytomegalovirus</i>	8.7 e4	High	<dl
<i>EBV- Epstein Bar Virus</i>	<dl		<dl

**Parasites****Protozoa**

<i>Blastocystis hominis</i>	8.7 e4	High	<dl
<i>Chilomastix mesnelli</i>	<dl		<dl
<i>Cyclospora cayetanenensis</i>	<dl		<dl
<i>Dientamoeba fragilis</i>	<dl		<dl
<i>Endolimax nana</i>	<dl		<dl
<i>Entamoeba coli</i>	<dl		<dl
<i>Pentatrichomonas hominis</i>	<dl		<dl

**Worms**

<i>Ancylostoma duodenale</i>	Negative		Neg
<i>Ascaris lumbricoides</i>	Negative		Neg
<i>Necator americanus</i>	Negative		Neg
<i>Trichuris trichiura</i>	Negative		Neg
<i>Taenia solium/saginada</i>	Negative		Neg

**Intestinal Health**

Digestion	Result		Range
Elastase-1	196	Low	>200 ug/g
Steatocrit	13		<15%

**Immune Response**

SIGA	406	Low	510-2010 ug/g
Anti-gliadin SIGA	67		0-157 U/L

**Inflammation**

Calprotectin	75	High	<50 ug/g
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**GI Markers**

b-Glucuronidase	1745		<2457 U/mL
Occult blood	Negative		neg

**Add-on Test**

Zonulin	167	High	30-107
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**Antibiotic Resistance Genes, phenotypes****Helicobacter**

Clarithromycin	<b>Positive</b>	Neg
Fluoroquinolones	Negative	Neg

**Antibiotic Resistance Genes, genotypes****Universal Microbiota Resistance Genes**

B-lactamase	<b>Positive</b>	Neg
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Genes associated to B-lactamase resistance

blatem-70	<b>Present</b>	SHV-24	Absent	blaPER-1	Absent
blaCTX-M-3	Absent	blaCTX-M-35	Absent	blaPER-2	Absent
bla-VEB-1	Absent	blatoho-3	Absent	blaGES-3	Absent
blaOXA-30	Absent	blaCTX-M-63	Absent	blaNDM-1	Absent

Fluoroquinolones	<b>Negative</b>	Neg
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qnrA2      Absent      qnrB      Absent

Macrolides	<b>Positive</b>	Neg
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ermA      Absent      ermB      **Present**      ermC      Absent  
mefE      Absent

Vancomycin	<b>Negative</b>	Neg
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vanA1      Absent      vanA2      Absent      vanB      Absent  
vanC      Absent