



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 <b>Low</b>	<dl
<i>Vibrio cholerae</i>	<dl	<dl
<i>Yersinia enterocolitica</i>	<dl	<dl

Parasitic Pathogens	Result	Expected
<i>Cryptosporidium</i>	<dl	<dl
<i>Entamoeba histolytica</i>	<dl	<dl
<i>Giardia</i>	<dl	<dl

Viral Pathogens	Result	Expected
<i>Adenovirus</i> 40/41	2.3 e3 <b>High</b>	<dl
<i>Norovirus</i> GI	<dl	<dl
<i>Norovirus</i> GII	<dl	<dl

**H. pylori**

<i>Helicobacter pylori</i>	4.03 E6 <b>High</b>	<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, opiA	Negative	Neg
Virulence Factor, vacA	<b>Positive</b>	Neg

**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
Furmicutes/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 (from pg 1)</i>	<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

**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 cayetanensis</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 americanis</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
--------------	----	------	----------

**GI Markers**

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

**Add-on Test**

Zonulin	167	High	30-107
---------	-----	------	--------

Patient: Jane Doe

Accession: 20150727-0102

**Antibiotic Resistance Genes, phenotypes**

**Helicobacter**

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

**Antibiotic Resistance Genes, genotypes**

**Universal Microbiota Resistance Genes**

<b>B-lactamase</b>	<b>Positive</b>	Neg
--------------------	-----------------	-----

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

<b>Fluoroquinolones</b>	<b>Negative</b>	Neg
-------------------------	-----------------	-----

qnrA2	Absent	qnrB	Absent
-------	--------	------	--------

<b>Macrolides</b>	<b>Positive</b>	Neg
-------------------	-----------------	-----

ermA	Absent	ermB	<b>Present</b>	ermC	Absent
mefE	Absent				

<b>Vancomycin</b>	<b>Negative</b>	Neg
-------------------	-----------------	-----

vanA1	Absent	vanA2	Absent	vanB	Absent
vanC	Absent				