

Patient: Ima Sample
Collected: 9/4/2018
DOB: 9/1/2009

Accession: 20180906-0001
Received: 9/6/2018
Completed: 9/6/2018

Ordered by: Diane Farhi, MD

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>	<dl	<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>	3.75e2	<5.00e3

Viral Pathogens

	Result	Normal
Adenovirus 40/41	<dl	<1.00e10
Norovirus GI/II	<dl	<1.00e7

H. pylori

	Result		Normal
<i>Helicobacter pylori</i>	3.5e4	High	<1.0e3
Virulence Factor, babA	Positive		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	Positive		Negative
Virulence Factor, virD	Negative		Negative

Normal Bacterial Flora

	Result		Normal
<i>Bacteroides fragilis</i>	8.0e10		1.60e9 - 2.50e11
<i>Bifidobacterium spp.</i>	4.2e11		>6.70e7
<i>Enterococcus spp.</i>	4.8e5		1.9e5 - 2.00e8
<i>Escherichia spp.</i>	2.1e7		3.70e6 - 3.80e9
<i>Lactobacillus spp.</i>	6.7e7		8.6e5 - 6.20e8
<i>Clostridium spp.</i>	9.83e5		1.20e3 - 1.00e6
<i>Enterobacter spp.</i>	1.85e8	High	1.00e6 - 5.00e7

Phyla Microbiota

	Result		Normal
<i>Bacteroidetes</i>	5.19e12	High	8.61e11 - 3.31e12
<i>Firmicutes</i>	7.40e10		5.70e10 - 3.04e11
<i>Firmicutes:Bacteroidetes Ratio</i>	0.01		<1.00

Opportunistic Bacteria

Additional Dysbiotic/Overgrowth Bacteria	Result	Normal
<i>Bacillus spp.</i>	1.04e4	<1.50e5
<i>Enterococcus faecalis</i>	3.65e2	<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>	9.67e0	<5.00e2
<i>Streptococcus spp.</i>	4.10e2	<1.00e3

Potential Autoimmune Triggers

	Result	Normal
<i>Citrobacter spp.</i>	<dl	<5.00e6
<i>Citrobacter freundii</i>	2.04e5	<5.00e5
<i>Klebsiella spp.</i>	<dl	<5.00e3
<i>Klebsiella pneumoniae</i>	<dl	<5.00e4
<i>M. avium subsp. paratuberculosis</i>	<dl	<5.00e3
<i>Prevotella copri</i>	<dl	<1.00e7
<i>Proteus spp.</i>	<dl	<5.00e4
<i>Proteus mirabilis</i>	<dl	<1.00e3

Fungi/Yeast

	Result	Normal
<i>Candida spp.</i>	1.01e2	<5.00e3
<i>Candida albicans</i>	1.42e2	<5.00e2
<i>Geotrichum spp.</i>	<dl	<3.00e2
<i>Microsporidium spp.</i>	<dl	<5.00e3
<i>Rodotorula spp.</i>	<dl	<1.00e3

Viruses

	Result	Normal
<i>Cytomegalovirus</i>	<dl	<1.00e5
<i>Epstein Barr Virus</i>	<dl	<1.00e7

Parasites

Protozoa	Result	Normal
<i>Blastocystis hominis</i>	1.98e3	<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	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
Elastase-1	407	>200 ug/g
Steatocrit	7	<15 %

GI Markers	Result	Normal
b-Glucuronidase	2178	<2486 U/mL
Occult Blood - FIT	0	<10 ug/g

Immune Response	Result	Normal
Secretory IgA	1188	510 - 2010 ug/g
Anti-gliadin IgA	54	0 - 157 U/L

Inflammation	Result	Normal
Calprotectin	113 High	<50 ug/g

Add-on Test	Result	Normal
Zonulin	32.4	<107 ng/g

Antibiotic Resistance Genes, phenotypes

Helicobacter		Result		Expected Result	
Clarithromycin		Positive		Absent	
A2142C	Absent	A2142G	Absent	A2143G	Present
Fluoroquinolones		Positive		Absent	
gyrA N87K	Absent	gyrA D91N	Present	gyrA D91G	Absent
gyrB S479N	Absent	gyrB R484K	Absent		

The assays were developed and the performance characteristics determined by Diagnostic Solutions Laboratory.

CLIA# 11D-2097795
 Medical Director - Diane Farhi, MD

Antibiotic Resistance Genes, genotypes

Universal Microbiota Resistance Genes

b-lactamase	Negative				Absent	
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TEM-70	Absence	CTXM3	Absence	SHV-24	Absence
VEB-1	Absence	OXA-30	Absence	CTXM35	Absence
toho-3	Absence	CTXM63	Absence	PER-1	Absence
PER-2	Absence	GES-3	Absence	NDM-1	Absence

Fluoroquinolones	Negative				Absent	
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qnrA2	Absence	qnrB	Absence
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Macrolides	Positive				Absent	
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ermA	Absence	ermB	Presence	ermC	Absence
mefE	Presence				

Vancomycin	Negative				Absent	
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vanA1	Absence	vanA2	Absence	vanB	Absence
vanC	Absence				