

Patient: **Brad**

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
<i>Adenovirus</i> 40/41	<dl	<1.00e10
<i>Norovirus</i> GI/II	<dl	<1.00e7

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H. pylori

	Result		Normal
<i>Helicobacter pylori</i>	1.3e5	High	<1.0e3
Virulence Factor, babA	Positive		Negative
Virulence Factor, cagA	Negative		Negative
Virulence Factor, dupA	Negative		Negative
Virulence Factor, iceA	Positive		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>	1.43e11		1.60e9 - 2.50e11
<i>Bifidobacterium spp.</i>	3.64e11		>6.70e7
<i>Enterococcus spp.</i>	6.49e8	High	1.9e5 - 2.00e8
<i>Escherichia spp.</i>	2.64e9		3.70e6 - 3.80e9
<i>Lactobacillus spp.</i>	2.98e9	High	8.6e5 - 6.20e8
<i>Clostridia (class)</i>	2.13e7		5.00e6 - 5.00e7
<i>Enterobacter spp.</i>	1.02e6		1.00e6 - 5.00e7
<i>Akkermansia muciniphila</i>	7.61e4	High	1.00e1 - 5.00e4
<i>Faecalibacterium prausnitzii</i>	2.05e8		1.00e3 - 5.00e8

Phyla Microbiota

	Result		Normal
<i>Bacteroidetes</i>	6.38e12	High	8.61e11 - 3.31e12
<i>Firmicutes</i>	1.35e12	High	5.70e10 - 3.04e11
<i>Firmicutes:Bacteroidetes Ratio</i>	0.21		<1.00

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Opportunistic Bacteria

Additional Dysbiotic/Overgrowth Bacteria

	Result		Normal
<i>Bacillus</i> spp.	2.28e5	High	<1.50e5
<i>Enterococcus faecalis</i>	1.09e3		<1.00e4
<i>Enterococcus faecium</i>	<dl		<1.00e4
<i>Morganella</i> spp.	<dl		<1.00e3
<i>Pseudomonas</i> spp.	1.19e6	High	<1.00e4
<i>Pseudomonas aeruginosa</i>	7.03e2		<5.00e2
<i>Staphylococcus</i> spp.	<dl		<1.00e4
<i>Staphylococcus aureus</i>	5.45e1		<5.00e2
<i>Streptococcus</i> spp.	<dl		<1.00e3
<i>Methanobacteriaceae</i> (family)	5.47e9	High	<5.00e9

Potential Autoimmune Triggers

	Result		Normal
<i>Citrobacter</i> spp.	<dl		<5.00e6
<i>Citrobacter freundii</i>	<dl		<5.00e5
<i>Klebsiella</i> spp.	5.47e4	High	<5.00e3
<i>Klebsiella pneumoniae</i>	<dl		<5.00e4
<i>M. avium</i> subsp. <i>paratuberculosis</i>	<dl		<5.00e3
<i>Prevotella</i> spp.	3.71e7		<1.00e8
<i>Proteus</i> spp.	<dl		<5.00e4
<i>Proteus mirabilis</i>	<dl		<1.00e3
<i>Fusobacterium</i> spp.	1.16e6		<1.00e8

Fungi/Yeast

	Result		Normal
<i>Candida</i> spp.	3.58e4	High	<5.00e3
<i>Candida albicans</i>	<dl		<5.00e2
<i>Geotrichum</i> spp.	<dl		<3.00e2
<i>Microsporidium</i> spp.	<dl		<5.00e3
<i>Rhodotorula</i> spp.	<dl		<1.00e3

Viruses

	Result		Normal
Cytomegalovirus	<dl		<1.00e5
Epstein Barr Virus	<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	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	160 Low	>200 ug/g

GI Markers	Result	Normal
b-Glucuronidase	3501 High	<2486 U/mL
Occult Blood - FIT	0	<10 ug/g

Immune Response	Result	Normal
Secretory IgA	3052 High	510 - 2010 ug/g
Anti-gliadin IgA	310 High	0 - 157 U/L

Inflammation	Result	Normal
Calprotectin	90	<173 ug/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