



Patient: **LAYLA BELCADI**
DOB: April 14, 2003
Sex: F
MRN: 0002705658

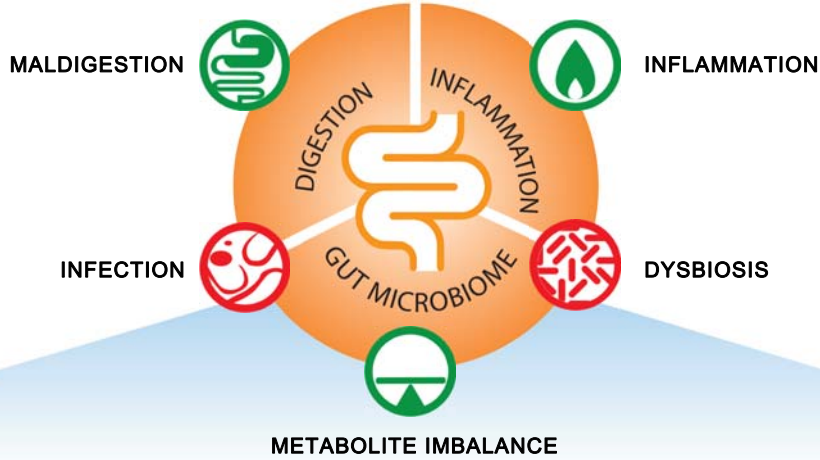
Order Number: R3190234
Reported: September 29, 2022
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Collected: September 14, 2022

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2200 GI Effects™ Comprehensive Profile - Stool

Powered by *Genova AI*

Results Overview



Functional Imbalance Scores

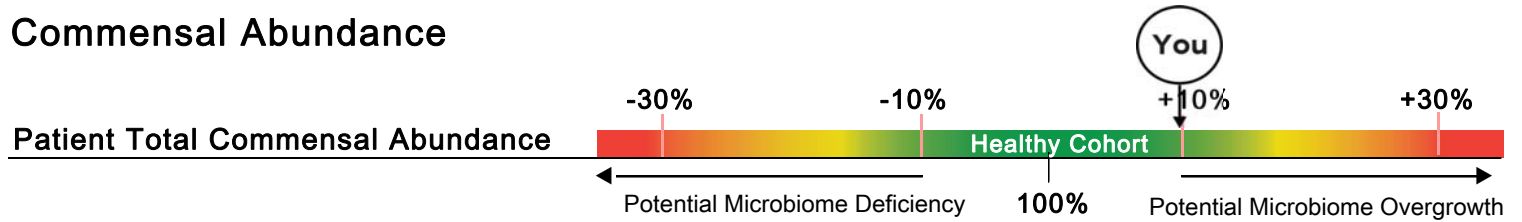
Key **<2** : Low Need for Support **2-3** : Optional Need for Support **4-6** : Moderate Need for Support **7-10** : High Need for Support

	Need for Digestive Support	Need for Inflammation Modulation	Need for Microbiome Support	Need for Prebiotic Support	Need for Antimicrobial Support
	MALDIGESTION 0	INFLAMMATION 0	DYSBIOSIS 10	METABOLITE IMBALANCE 0	INFECTION 8
Biomarkers	Pancreatic Elastase ● Products of Protein Breakdown ● Fecal Fats ●	Secretory IgA ▲ Calprotectin ● Eosinophil Protein X ● Occult Blood ●	PP Bacteria/Yeast ▲ Reference Variance ▲ IAD/Methane Score ● Total Abundance ●	Beta-glucuronidase ▲ Total SCFA's ● n-Butyrate Conc. ● SCFA (%) ●	PP Bacteria/Yeast ▲ Parasitic Infection ● Pathogenic Bacteria ● Total Abundance ●
Therapeutic Support Options					



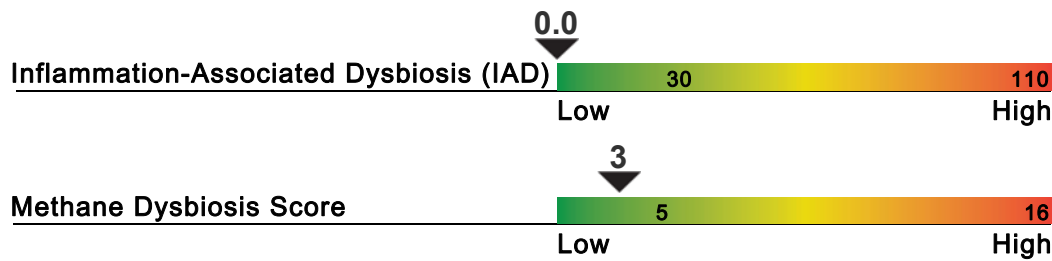
Commensal Microbiome Analysis

Commensal Abundance

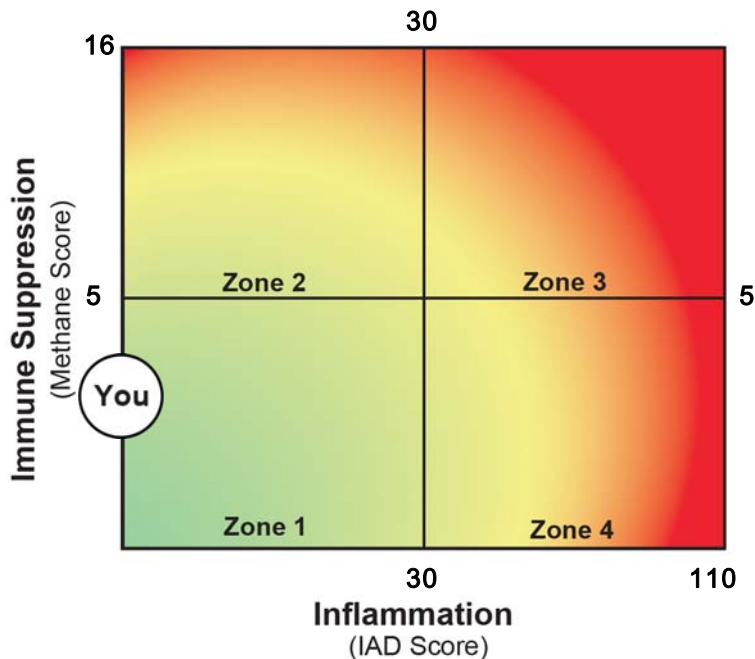


Total Commensal Balance: The total commensal abundance is a sum-total of the reported commensal bacteria compared to a healthy cohort. Low levels of commensal bacteria are often observed after antimicrobial therapy, or in diets lacking fiber and/or prebiotic-rich foods and may indicate the need for microbiome support. Conversely, higher total commensal abundance may indicate potential bacteria overgrowth or probiotic supplementation.

Dysbiosis Patterns



Dysbiosis Patterns: Genova's data analysis has led to the development of unique dysbiosis patterns, related to key physiologic disruptions, such as immunosuppression and inflammation. These patterns may represent dysbiotic changes that could pose clinical significance. Please see Genova's published literature for more details: <https://rdcu.be/bRhzv>



Zone 1: The commensal profile in this zone does not align with profiles associated with intestinal inflammation or immunosuppression. If inflammatory biomarkers are present, other causes need to be excluded, such as infection, food allergy, or more serious pathology.

Zone 2: This pattern of bacteria is associated with impaired intestinal barrier function (low fecal sIgA and EPX). Patients in this zone have higher rates of opportunistic infections (e.g. *Blastocystis spp.* & *Dientamoeba fragilis*) as well as fecal fat malabsorption. Commensal abundance is higher in this group suggesting potential bacterial overgrowth.

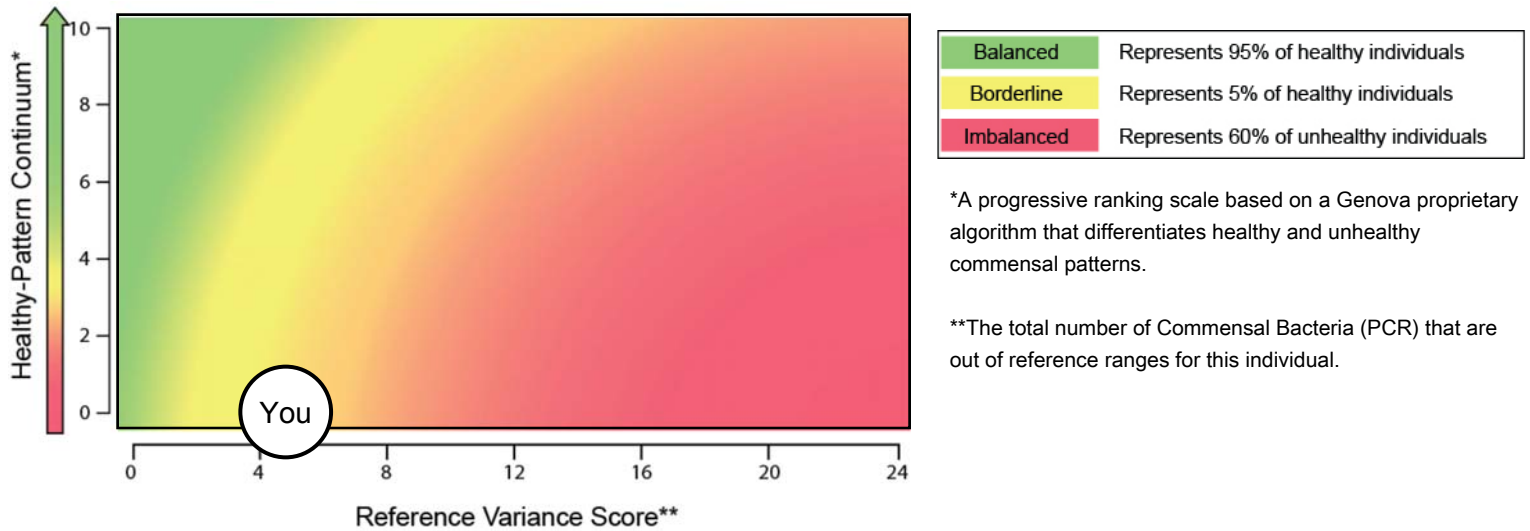
Zone 3: Patients in this zone may have more inflammation compared to those in zone 4. However, commensal abundance is usually higher making use of antimicrobial therapy relatively safer. Patients in this zone may have higher rates of pathogenic infections.

Zone 4: This commensal profile is associated with increased intestinal inflammation. IBD patients are more likely to have this pattern of bacteria. Commensal abundance is lower in this zone; therefore, antibiotic use for GI potential pathogens should be used with caution. In addition to standard treatment for intestinal inflammation, modulation of the commensal gut profile is encouraged.

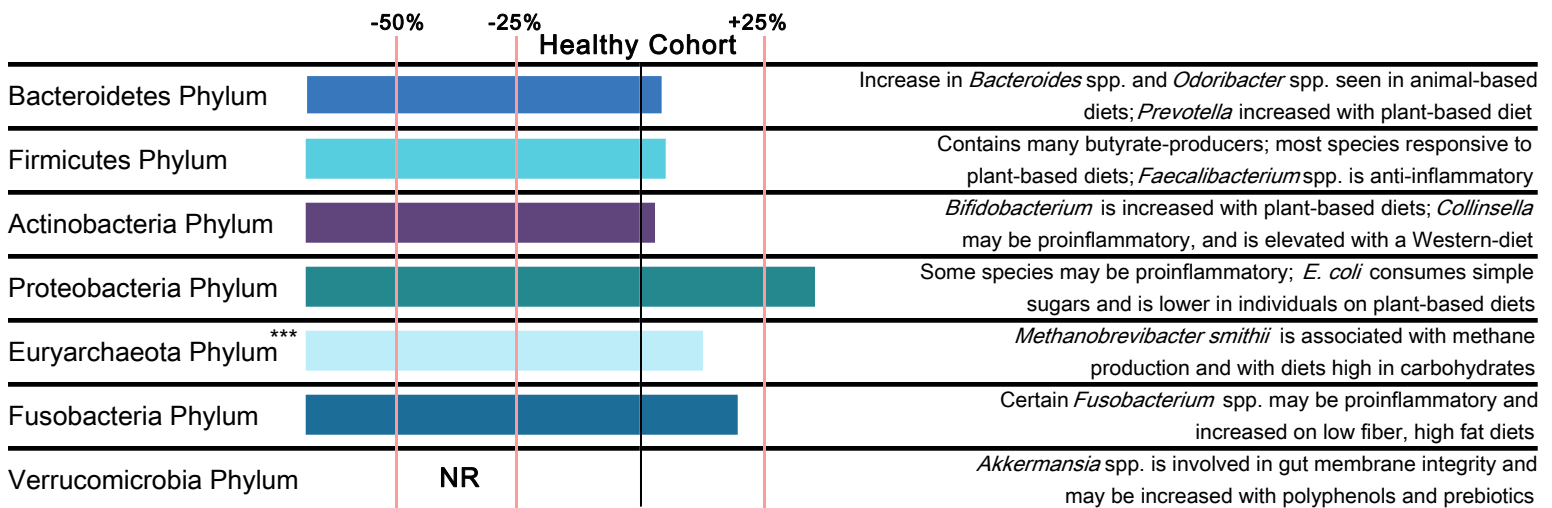


Commensal Microbiome Analysis

Commensal Balance



Relative Commensal Abundance



Relative Abundance: The relative abundance compares the quantity of each of 7 major bacterial phyla to a healthy cohort. This can indicate broader variances in the patient's gut microbiome profile. Certain interventions may promote or limit individual phyla when clinically appropriate. Please refer to Genova's Stool Testing Support Guide for more information on modulation of commensal bacteria through diet & nutrient interventions. ***Approximately 75% of the healthy cohort had below detectable levels of *Methanobrevibacter smithii*.

Physician Notes/Recommendations



2200 GI Effects™ Comprehensive Profile - Stool

Methodology: GC-FID, Automated Chemistry, EIA

	Result	1st	2nd	3rd	4th	5th	Reference Range
Digestion and Absorption							
Pancreatic Elastase 1 †	429		100	200			>200 mcg/g
Products of Protein Breakdown (Total*) (Valerate, Isobutyrate, Isovalerate)	6.1						1.8-9.9 micromol/g
Fecal Fat (Total*)	8.6						3.2-38.6 mg/g
Triglycerides	2.2						0.3-2.8 mg/g
Long-Chain Fatty Acids	3.6						1.2-29.1 mg/g
Cholesterol	2.3						0.4-4.8 mg/g
Phospholipids	0.5						0.2-6.9 mg/g
Inflammation and Immunology							
Calprotectin †	<16		50	120			<=50 mcg/g
Eosinophil Protein X (EPX)†	<DL		0.5		2.7		<=2.7 mcg/g
Fecal secretory IgA	682		680		2040		<=2,040 mcg/mL
Gut Microbiome Metabolites							
Metabolic							
Short-Chain Fatty Acids (SCFA) (Total*) (Acetate, n-Butyrate, Propionate)	45.9						>=23.3 micromol/g
n-Butyrate Concentration	9.5						>=3.6 micromol/g
n-Butyrate %	20.7						11.8-33.3 %
Acetate %	57.3						48.1-69.2 %
Propionate %	22.0						<=29.3 %
Beta-glucuronidase	3,854						368-6,266 U/g

*Total value is equal to the sum of all measurable parts.

†These results are not represented by quintile values.

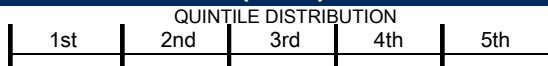
Tests were developed and their performance characteristics determined by Genova Diagnostics. Unless otherwise noted with *, the assays have not been cleared by the U.S. Food and Drug Administration.

Methodology: DNA by PCR

Gastrointestinal Microbiome (PCR)**

Commensal Bacteria (PCR)

Result
CFU/g stool



Reference Range
CFU/g stool

Bacteroidetes Phylum

<i>Bacteroides-Prevotella</i> group	1.1E9		3.4E6-1.5E9
<i>Bacteroides vulgatus</i>	1.9E9		<=2.2E9
<i>Barnesiella</i> spp.	<DL		<=1.6E8
<i>Odoribacter</i> spp.	8.6E7 H		<=8.0E7
<i>Prevotella</i> spp.	2.4E6		1.4E5-1.6E7

Firmicutes Phylum

<i>Anaerotruncus colihominis</i>	2.7E7		<=3.2E7
<i>Butyrivibrio crossotus</i>	1.4E5		5.5E3-5.9E5
<i>Clostridium</i> spp.	7.7E9		1.7E8-1.5E10
<i>Coprococcus eutactus</i>	1.8E7		<=1.2E8
<i>Faecalibacterium prausnitzii</i>	7.7E9 H		5.8E7-4.7E9
<i>Lactobacillus</i> spp.	1.6E8		8.3E6-5.2E9
<i>Pseudoflavonifractor</i> spp.	2.3E8 H		4.2E5-1.3E8
<i>Roseburia</i> spp.	2.5E9		1.3E8-1.2E10
<i>Ruminococcus</i> spp.	1.4E8		9.5E7-1.6E9
<i>Veillonella</i> spp.	2.8E7		1.2E5-5.5E7

Actinobacteria Phylum

<i>Bifidobacterium</i> spp.	1.7E9		<=6.4E9
<i>Bifidobacterium longum</i>	7.8E7		<=7.2E8
<i>Collinsella aerofaciens</i>	1.3E9		1.4E7-1.9E9

Proteobacteria Phylum

<i>Desulfovibrio piger</i>	2.6E6		<=1.8E7
<i>Escherichia coli</i>	5.3E6		9.0E4-4.6E7
<i>Oxalobacter formigenes</i>	2.4E7 H		<=1.5E7

Euryarchaeota Phylum

<i>Methanobrevibacter smithii</i>	4.7E6		<=8.6E7
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Fusobacteria Phylum

<i>Fusobacterium</i> spp.	7.3E4		<=2.4E5
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Verrucomicrobia Phylum

<i>Akkermansia muciniphila</i>	<DL L		>=1.2E6
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Firmicutes/Bacteroidetes Ratio

<i>Firmicutes/Bacteroidetes</i> (F/B Ratio)	16		12-620
---	----	--	--------

The gray-shaded portion of a quintile reporting bar represents the proportion of the reference population with results below detection limit.

Commensal results and reference range values are displayed in a computer version of scientific notation, where the capital letter "E" indicates the exponent value (e.g., 7.3E6 equates to 7.3 x 10⁶ or 7,300,000).

The Firmicutes/Bacteroidetes ratio (F/B Ratio) is estimated by utilizing the lowest and highest values of the reference range for individual organisms when patient results are reported as <DL or >UL.



Gastrointestinal Microbiome (Culture)

Human microflora is influenced by environmental factors and the competitive ecosystem of the organisms in the GI tract. Pathogenic significance should be based upon clinical symptoms.

Microbiology Legend			
NG	NP	PP	P
No Growth	Non-Pathogen	Potential Pathogen	Pathogen

Additional Bacteria

Non-Pathogen: Organisms that fall under this category are those that constitute normal, commensal flora, or have not been recognized as etiological agents of disease.

Potential Pathogen: Organisms that fall under this category are considered potential or opportunistic pathogens when present in heavy growth.

Pathogen: The organisms that fall under this category have a well-recognized mechanism of pathogenicity in clinical literature and are considered significant regardless of the quantity that appears in the culture.

Bacteriology (Culture)

Lactobacillus spp.

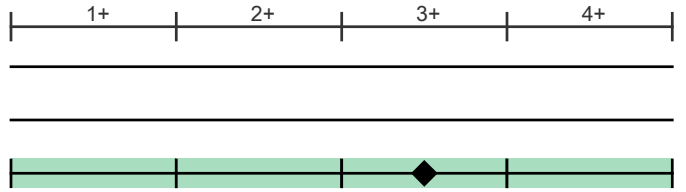
NG

Escherichia coli

NG

Bifidobacterium (Anaerobic Culture)

3+ NP



Additional Bacteria

Kluyvera cryocrescens

4+ NP

Klebsiella oxytoca

4+ PP

Haemolytic Escherichia coli

4+ NP

Bacillus species

1+ NP

Enterococcus faecalis

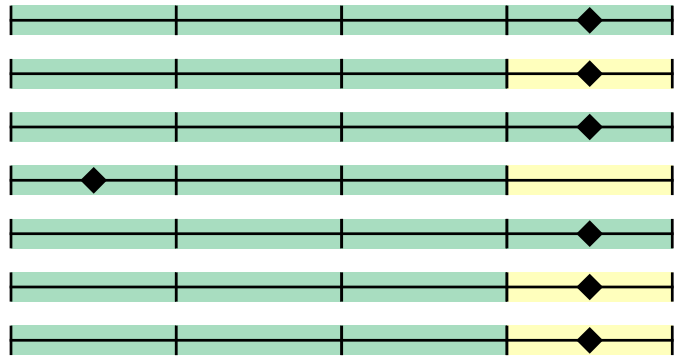
4+ NP

Enterobacter cloacae

4+ PP

Proteus mirabilis

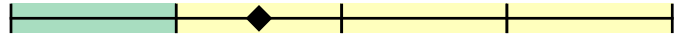
4+ PP



Mycology (Culture)

Candida albicans

2+ PP





Parasitology

Microscopic O&P Results

Microscopic O&P is capable of detecting all described gastrointestinal parasites. The organisms listed in the box represent those commonly found in microscopic stool analysis. Should an organism be detected that is not included in the list below, it will be reported in the Additional Results section. These results were obtained using wet preparation(s) and trichrome stained smear. For an extensive reference of all potentially detectable organisms, please visit www.gdx.net/product/gi-effects-comprehensive-stool-test

Genus/species	Result
Nematodes - roundworms	
<i>Ancylostoma/Necator</i> (Hookworm)	Not Detected
<i>Ascaris lumbricoides</i>	Not Detected
<i>Capillaria philippinensis</i>	Not Detected
<i>Enterobius vermicularis</i>	Not Detected
<i>Strongyloides stercoralis</i>	Not Detected
<i>Trichuris trichiura</i>	Not Detected
Cestodes - tapeworms	
<i>Diphyllobothrium latum</i>	Not Detected
<i>Dipylidium caninum</i>	Not Detected
<i>Hymenolepis diminuta</i>	Not Detected
<i>Hymenolepis nana</i>	Not Detected
<i>Taenia</i> spp.	Not Detected
Trematodes - flukes	
<i>Clonorchis/Opisthorchis</i> spp.	Not Detected
<i>Fasciola</i> spp./ <i>Fasciolopsis buski</i>	Not Detected
<i>Heterophyes/Metagonimus</i>	Not Detected
<i>Paragonimus</i> spp.	Not Detected
<i>Schistosoma</i> spp.	Not Detected
Protozoa	
<i>Balantidium coli</i>	Not Detected
<i>Blastocystis</i> spp.	Not Detected
<i>Chilomastix mesnili</i>	Not Detected
<i>Cryptosporidium</i> spp.	Not Detected
<i>Cyclospora cayetanensis</i>	Not Detected
<i>Dientamoeba fragilis</i>	Not Detected
<i>Entamoeba coli</i>	Not Detected
<i>Entamoeba histolytica/dispar</i>	Not Detected
<i>Entamoeba hartmanii</i>	Not Detected
<i>Entamoeba polecki</i>	Not Detected
<i>Endolimax nana</i>	Not Detected
<i>Giardia</i>	Not Detected
<i>Iodamoeba buetschlii</i>	Not Detected
<i>Cystoisospora</i> spp.	Not Detected
<i>Trichomonads</i> (e.g. <i>Pentatrichomonas</i>)	Not Detected
Additional Findings	
White Blood Cells	Not Detected
Charcot-Leyden Crystals	Not Detected
Other Infectious Findings	



Parasitology

PCR Parasitology - Protozoa

Methodologies: DNA by PCR, Next Generation Sequencing

Organism	Result	Units		Expected Result
<i>Blastocystis</i> spp.	<2.14e2	femtograms/microliter C&S stool	Not Detected	Not Detected
<i>Cryptosporidium parvum/hominis</i>	<1.76e2	genome copies/microliter C&S stool	Not Detected	Not Detected
<i>Cyclospora cayetanensis</i>	<2.65e2	genome copies/microliter C&S stool	Not Detected	Not Detected
<i>Dientamoeba fragilis</i>	<1.84e2	genome copies/microliter C&S stool	Not Detected	Not Detected
<i>Entamoeba histolytica</i>	<9.64e1	genome copies/microliter C&S stool	Not Detected	Not Detected
<i>Giardia</i>	<1.36e1	genome copies/microliter C&S stool	Not Detected	Not Detected

Additional Results

Methodology: Fecal Immunochemical Testing (FIT)

	Result	Expected Value
Fecal Occult Blood♦	Negative	Negative
Color††	Brown	
Consistency††	Hard/Constip.	

††Results provided from patient input.

Tests were developed and their performance characteristics determined by Genova Diagnostics. Unless otherwise noted with ♦, the assays have not been cleared by the U.S. Food and Drug Administration.



Commentary

Lab Comments

Due to a manufacturer reagent supply interruption, testing for the pharmaceutical antifungals, Fluconazole and Voriconazole, is temporarily unavailable 09/26/2022 ASC

*** Indicates testing performed at Genova Diagnostics 3425 Corporate Way, Duluth GA 30096*

Lab Director = Robert M. David, PhD, Lab Director · CLIA Lic. #11D0255349 · Medicare Lic. #34-8475

· Georgia Lab Lic. Code #067-007 · New York Clinical Lab PFI #4578 · Florida Clinical Lab Lic. #800008124

Commentary is provided to the practitioner for educational purposes and should not be interpreted as diagnostic or as treatment recommendations. Diagnosis and treatment decisions are the practitioner's responsibility.

For more information regarding GI Effects clinical interpretation, please refer to the GI Effects Support Guide at www.gdx.net/gieffectsguide.



Bacteria Sensitivity

Prescriptive Agents

<i>Klebsiella oxytoca</i>	R	I	S-DD	S	NI
Ampicillin	R				
Amox./Clavulanic Acid				S	
Cephalothin				S	
Ciprofloxacin				S	
Tetracycline				S	
Trimethoprim/Sulfa				S	

Natural Agents

<i>Klebsiella oxytoca</i>	LOW INHIBITION	HIGH INHIBITION
Berberine		
Oregano		
Uva-Ursi		

Prescriptive Agents:

The R (Resistant) category implies isolate is not inhibited by obtainable levels of pharmaceutical agent.

The I (Intermediate) category includes isolates for which the minimum inhibition concentration (MIC) values usually approach obtainable pharmaceutical agent levels and for which response rates may be lower than for susceptible isolates.

The S-DD (Susceptible-Dose Dependent) category implies clinical efficacy when higher than normal dosage of a drug can be used and maximal concentration achieved.

The S (Susceptible) column implies that isolates are inhibited by the usually achievable concentrations of the pharmaceutical agent.

NI (No Interpretive guidelines established) category is used for organisms that currently do not have established guidelines for MIC interpretation.

Refer to published pharmaceutical guidelines for appropriate dosage therapy.

Natural Agents:

In this assay, inhibition is defined as the reduction level on organism growth as a direct result of inhibition by a substance. The level of inhibition is an indicator of how effective the substance was at limiting the growth of an organism in an in vitro environment. High inhibition indicates a greater ability by the substance to limit growth, while Low Inhibition a lesser ability to limit growth. The designated natural products should be considered investigational in nature and not be viewed as standard clinical treatment substances.



Bacteria Sensitivity

Prescriptive Agents

	R	I	S-DD	S	NI
<i>Proteus mirabilis</i>					
Ampicillin				S	
Amox./Clavulanic Acid				S	
Cephalothin				S	
Ciprofloxacin				S	
Tetracycline	R				
Trimethoprim/Sulfa				S	

Natural Agents

	LOW INHIBITION	HIGH INHIBITION
<i>Proteus mirabilis</i>		
Berberine		
Oregano		
Uva-Ursi		

Prescriptive Agents:

The R (Resistant) category implies isolate is not inhibited by obtainable levels of pharmaceutical agent.

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Bacteria Sensitivity

Prescriptive Agents

	R	I	S-DD	S	NI
<i>Enterobacter cloacae</i>	R				
Ampicillin	R				
Amox./Clavulanic Acid	R				
Cephalothin	R				
Ciprofloxacin				S	
Tetracycline				S	
Trimethoprim/Sulfa				S	

Natural Agents

	LOW INHIBITION	HIGH INHIBITION
<i>Enterobacter cloacae</i>		
Berberine		
Oregano		
Uva-Ursi		

Prescriptive Agents:

The R (Resistant) category implies isolate is not inhibited by obtainable levels of pharmaceutical agent.

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Refer to published pharmaceutical guidelines for appropriate dosage therapy.

Natural Agents:

In this assay, inhibition is defined as the reduction level on organism growth as a direct result of inhibition by a substance. The level of inhibition is an indicator of how effective the substance was at limiting the growth of an organism in an in vitro environment. High inhibition indicates a greater ability by the substance to limit growth, while Low Inhibition a lesser ability to limit growth. The designated natural products should be considered investigational in nature and not be viewed as standard clinical treatment substances.



Mycology Sensitivity

Non-absorbed Antifungals

<i>Candida albicans</i>	LOW INHIBITION	HIGH INHIBITION
Nystatin		

Natural Agents

<i>Candida albicans</i>	LOW INHIBITION	HIGH INHIBITION
Berberine		
Caprylic Acid		
Garlic		
Undecylenic Acid		
Uva-Ursi		

Prescriptive Agents:

The R (Resistant) category implies isolate is not inhibited by obtainable levels of pharmaceutical agent.

The I (Intermediate) category includes isolates for which the minimum inhibition concentration (MIC) values usually approach obtainable pharmaceutical agent levels and for which response rates may be lower than for susceptible isolates.

The S-DD (Susceptible-Dose Dependent) category implies clinical efficacy when higher than normal dosage of a drug can be used and maximal concentration achieved.

The S (Susceptible) column implies that isolates are inhibited by the usually achievable concentrations of the pharmaceutical agent.

NI (No Interpretive guidelines established) category is used for organisms that currently do not have established guidelines for MIC interpretation.

Refer to published pharmaceutical guidelines for appropriate dosage therapy.

Nystatin and Natural Agents:

Results for Nystatin are being reported with natural antifungals in this category in accordance with laboratory guidelines for reporting sensitivities. In this assay, inhibition is defined as the reduction level on organism growth as a direct result of inhibition by a natural substance. The level of inhibition is an indicator of how effective the substance was at limiting the growth of an organism in an in vitro environment. High inhibition indicates a greater ability by the substance to limit growth, while Low Inhibition a lesser ability to limit growth. The designated natural products should be considered investigational in nature and not be viewed as standard clinical treatment substances.



2200 GI Effects™ Comprehensive Profile - Stool

Interpretation At-a-Glance

Commensal Bacteria	Patient Results Out of Reference Range	Genova Diagnostics Commensal Bacteria Clinical Associations*							
		IBS	IBD	Metabolic Syndrome	Chronic Fatigue	Auto-immune	Type 2 Diabetes	High Blood Pressure	Mood Disorders
Bacteroidetes Phylum									
<i>Bacteroides-Prevotella</i> group		↑	↑	↑	↑	↑	↑	↑	↑
<i>Bacteroides vulgatus</i>		↑			↑	↑		↑	↑
<i>Barnesiella</i> spp.									
<i>Odoribacter</i> spp.	H								
<i>Prevotella</i> spp.		↑		↑	↑	↑		↑	↑
Firmicutes Phylum									
<i>Anaerotruncus colihominis</i>		↑	↑	↑	↑	↑	↑	↑	↑
<i>Butyrivibrio crossotus</i>									
<i>Clostridium</i> spp.									
<i>Coprococcus eutactus</i>		↑			↑	↑		↑	↑
<i>Faecalibacterium prausnitzii</i>	H	↑				↑			↑
<i>Lactobacillus</i> spp.									
<i>Pseudoflavonifractor</i> spp.	H	↑	↑	↑	↑	↑	↑	↑	↑
<i>Roseburia</i> spp.			↓						
<i>Ruminococcus</i> spp.		↕	↓	↓	↓	↕	↕	↕	↕
<i>Veillonella</i> spp.		↑	↑	↑	↑	↑	↑		↑
Actinobacteria Phylum									
<i>Bifidobacterium</i> spp.									
<i>Bifidobacterium longum</i>									
<i>Collinsella aerofaciens</i>		↕	↕	↓	↕	↕	↕	↕	↕
Proteobacteria Phylum									
<i>Desulfovibrio piger</i>									↑
<i>Escherichia coli</i>		↑	↑	↑	↑	↑	↑	↑	↑
<i>Oxalobacter formigenes</i>	H	↑		↑	↑				↑
Euryarchaeota Phylum									
<i>Methanobrevibacter smithii</i>		↑				↑			↑
Fusobacteria Phylum									
<i>Fusobacterium</i> spp.		↑	↑	↑	↑	↑	↑	↑	↑
Verrucomicrobia Phylum									
<i>Akkermansia muciniphila</i>	L	↓	↓	↓	↓	↓	↓	↓	↓

*Information derived from GDx results data comparing a healthy cohort to various clinical condition cohorts. The chart above showing a comparison of patient results to clinical conditions is meant for informational purposes only; it is not diagnostic, nor does it imply that the patient has a specific clinical diagnosis or condition.

The arrows indicate Genova's clinical condition cohort test results falling below ↓ or above ↑ the reference range that is greater than that of Genova's healthy cohort.

↕ Indicates Genova's clinical condition cohort test results falling below and above the reference range that are greater than that of Genova's healthy cohort.

Cells with bolded arrows indicate Genova's clinical condition cohort had more test results falling above versus below ↕ or more below versus above ↕ the reference range compared to that of Genova's healthy cohort.



2200 GI Effects™ Comprehensive Profile - Stool

Interpretation At-a-Glance

Biomarker	Patient Results Out of Reference Range	Genova Diagnostics Biomarker Clinical Associations*							
		IBS	IBD	Metabolic Syndrome	Chronic Fatigue	Auto-immune	Type 2 Diabetes	High Blood Pressure	Mood Disorders
Pancreatic Elastase		↓	↓	↓	↓	↓	↓	↓	↓
Products of Protein Breakdown (Total)							↕		
Fecal Fat (Total*)		↑		↑	↑	↑	↕	↑	↑
Triglycerides		↑			↑	↑	↑	↑	↑
Long-Chain Fatty Acids		↑			↑	↑	↕	↑	↑
Cholesterol							↕	↑	
Phospholipids		↑	↑	↑	↑	↑	↑	↑	↑
Calprotectin			↑					↑	
Eosinophil Protein X (EPX)			↑						
Fecal secretory IgA		↑	↑	↑	↑	↑	↑	↑	↑
Short-Chain Fatty Acids (SCFA) (Total)					↓	↓			
n-Butyrate Concentration				↓					
n-Butyrate %									
Acetate %					↕		↕		
Propionate %				↑			↑	↑	
Beta-glucuronidase						↕			↕

*Information derived from GDx results data comparing a healthy cohort to various clinical condition cohorts. The chart above showing a comparison of patient results to clinical conditions is meant for informational purposes only; it is not diagnostic, nor does it imply that the patient has a specific clinical diagnosis or condition.

The arrows indicate Genova's clinical condition cohort test results falling below ↓ or above ↑ the reference range that is greater than that of Genova's healthy cohort.

↕ Indicates Genova's clinical condition cohort test results falling below and above the reference range that are greater than that of Genova's healthy cohort.

Cells with bolded arrows indicate Genova's clinical condition cohort had more test results falling above versus below ↕ or more below versus above ↕ the reference range compared to that of Genova's healthy cohort.