

TEST NUMBER: #####  
 PATIENT NUMBER: #####  
 GENDER: Female  
 AGE: 26  
 DATE OF BIRTH: dd-mm-yyyy

COLLECTED: dd/mm/yyyy  
 RECEIVED: dd/mm/yyyy  
 TESTED: dd/mm/yyyy

PRACTITIONER: **Nordic Laboratories**  
 ADDRESS:

**TEST NAME: GI Effects (GIFX) Microbial Ecology Profile**

**GI Effects™ Microbial Ecology Profile - Stool**

**Interpretation At-a-Glance**

**INFECTION**

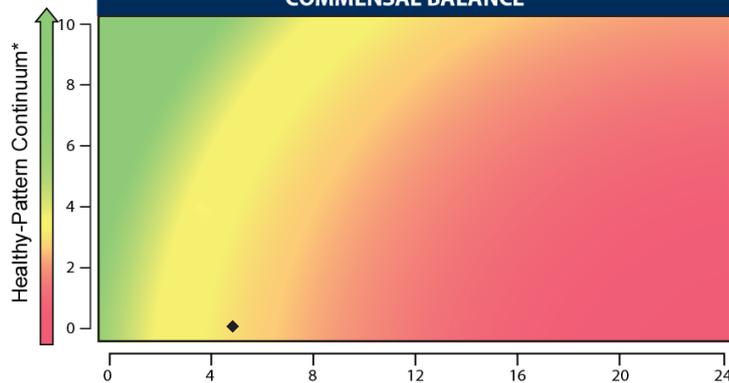


**IMBALANCE**

Beneficial Bacteria ▼



**COMMENSAL BALANCE**



◆ Your Result

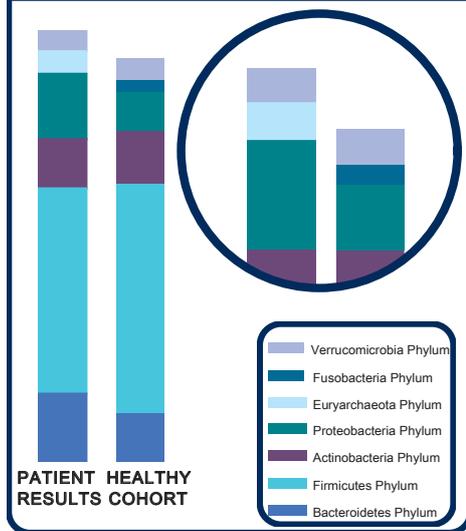
Reference Variance Score\*\*

Balanced	Represents 95% of healthy individuals
Borderline	Represents 5% of healthy individuals
Imbalanced	Represents 60% of unhealthy individuals

\*A progressive ranking scale based on a Genova proprietary algorithm that differentiates healthy and unhealthy commensal patterns.

\*\*The total number of Commensal Bacteria (PCR) that are out of reference ranges for this individual.

**RELATIVE ABUNDANCE**



**TEST NAME: GI Effects (GIFX) Microbial Ecology Profile**

**GI Effects™ Microbial Ecology 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
<b>Bacteroidetes Phylum</b>									
<i>Bacteroides-Prevotella</i> group		↑	↑	↑	↑	↑	↑	↑	↑
<i>Bacteroides vulgatus</i>		↑			↑	↑		↑	↑
<i>Barnesiella</i> spp.									
<i>Odoribacter</i> spp.	H								
<i>Prevotella</i> spp.		↑		↑	↑	↑		↑	↑
<b>Firmicutes Phylum</b>									
<i>Anaerotruncus colihominis</i>		↑	↑	↑	↑	↑	↑	↑	↑
<i>Butyrivibrio crossotus</i>	L								
<i>Clostridium</i> spp.									
<i>Coprococcus eutactus</i>		↑			↑	↑		↑	↑
<i>Faecalibacterium praushitzii</i>		↑				↑			↑
<i>Lactobacillus</i> spp.									
<i>Pseudoflavonifractor</i> spp.		↑	↑	↑	↑	↑	↑	↑	↑
<i>Roseburia</i> spp.			↓						
<i>Ruminococcus</i> spp.	L	↕	↓	↓	↓	↕	↕	↕	↕
<i>Veillonella</i> spp.		↑	↑	↑	↑	↑	↑	↑	↑
<b>Actinobacteria Phylum</b>									
<i>Bifidobacterium</i> spp.									
<i>Bifidobacterium longum</i>									
<i>Collinsella aerofaciens</i>		↕	↕	↓	↕	↕	↕	↕	↕
<b>Proteobacteria Phylum</b>									
<i>Desulfovibrio piger</i>	H								↑
<i>Escherichia coli</i>	H	↑	↑	↑	↑	↑	↑	↑	↑
<i>Oxalobacter formigenes</i>		↑		↑	↑				↑
<b>Euryarchaeota Phylum</b>									
<i>Methanobrevibacter smithii</i>		↑				↑			↑
<b>Fusobacteria Phylum</b>									
<i>Fusobacterium</i> spp.		↑	↑	↑	↑	↑	↑	↑	↑
<b>Verrucomicrobia Phylum</b>									
<i>Akkermansia muciniphila</i>		↓	↓	↓	↓	↓	↓	↓	↓

\*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 failing 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.

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**PRACTITIONER:** Nordic Laboratories  
**ADDRESS:**
**TEST NAME: GI Effects (GIFX) Microbial Ecology Profile**
**GI Effects™ Microbial Ecology Profile - Stool**
*Methodology: DNA by PCR*
**Gastrointestinal Microbiome**
**Commensal Bacteria (PCR)**

	Result CFU/g stool	QUINTILE DISTRIBUTION					Reference Range CFU/g stool
		1st	2nd	3rd	4th	5th	
<b>Bacteroidetes Phylum</b>							
<i>Bacteroides-Prevotella</i> group	4.0E7						3.4E6-1.5E9
<i>Bacteroides vulgatus</i>	6.6E8						<=2.2E9
<i>Barnesiella</i> spp.	1.7E7						<=1.6E8
<i>Odoribacter</i> spp.	8.9E7 <b>H</b>						<=8.0E7
<i>Prevotella</i> spp.	7.8E6						1.4E5-1.6E7
<b>Firmicutes Phylum</b>							
<i>Anaerotruncus colihominis</i>	6.4E6						<=3.2E7
<i>Butyrivibrio crossotus</i>	<DL <b>L</b>						5.5E3-5.9E5
<i>Clostridium</i> spp.	1.5E9						1.7E8-1.5E10
<i>Coprococcus eutactus</i>	3.1E7						<=1.2E8
<i>Faecalibacterium prausnitzii</i>	6.1E8						5.8E7-4.7E9
<i>Lactobacillus</i> spp.	1.2E8						8.3E6-5.2E9
<i>Pseudoflavonifractor</i> spp.	5.6E7						4.2E5-1.3E8
<i>Roseburia</i> spp.	2.0E8						1.3E8-1.2E10
<i>Ruminococcus</i> spp.	2.1E7 <b>L</b>						9.5E7-1.6E9
<i>Veillonella</i> spp.	4.0E5						1.2E5-5.5E7
<b>Actinobacteria Phylum</b>							
<i>Bifidobacterium</i> spp.	2.1E8						<=6.4E9
<i>Bifidobacterium longum</i>	<DL						<=7.2E8
<i>Collinsella aerofaciens</i>	2.1E8						1.4E7-1.9E9

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 10<sup>6</sup> or 7,300,000).

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PRACTITIONER: **Nordic Laboratories**  
 ADDRESS:

**TEST NAME: GI Effects (GIFX) Microbial Ecology Profile**

 Methodology: DNA by PCR
 
**Gastrointestinal Microbiome**

Commensal Bacteria (PCR)	Result CFU/g stool	QUINTILE DISTRIBUTION					Reference Range CFU/g stool
		1st	2nd	3rd	4th	5th	
<b>Proteobacteria Phylum</b>							
<i>Desulfovibrio piger</i>	4.8E7 <b>H</b>						<=1.8E7
<i>Escherichia coli</i>	5.2E7 <b>H</b>						9.0E4-4.6E7
<i>Oxalobacter formigenes</i>	4.9E6						<=1.5E7
<b>Euryarchaeota Phylum</b>							
<i>Methanobrevibacter smithii</i>	4.1E7						<=8.6E7
<b>Fusobacteria Phylum</b>							
<i>Fusobacterium</i> spp.	<DL						<=2.4E5
<b>Verrucomicrobia Phylum</b>							
<i>Akkermansia muciniphila</i>	9.8E6						>=1.2E6
<b>Firmicutes/Bacteroidetes Ratio</b>							
<i>Firmicutes/Bacteroidetes</i> (F/B Ratio)	17						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 10<sup>6</sup> 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.

PATIENT: <b>Sample Report</b>		TEST REF: <b>TST-##-####</b>
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**TEST NAME: GI Effects (GIFX) Microbial Ecology Profile**

Methodology: Culture/MALDI-TOF MS, Automated and Manual Biochemical Methods, Vitek® 2 System Microbial identification and Antibiotic susceptibility

**Gastrointestinal Microbiome**

**Bacteriology (Culture)**

*Lactobacillus spp.*

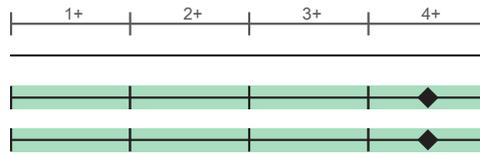
NG

*Escherichia coli*

4+ NP

*Bifidobacterium*

4+ NP



**Additional Bacteria**

*gamma haemolytic Streptococcus*

1+ NP

*beta Strep (Not Group A or B)*

3+ NP

*Enterobacter species*

2+ NP



**Mycology (Culture)**

NG



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.



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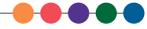
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**TEST NAME: GI Effects (GIFX) Microbial Ecology Profile**

Methodology: Direct Microscopic Examination, EIA



**Parasitology**

**Microscopic Exam Results\*\***

No Ova or Parasites seen

**Parasitology**

Parasite Recovery: Literature suggests that >90% of enteric parasitic infections may be detected in a sample from a single stool collection. Increased sensitivity results from the collection of additional specimens on separate days.

One negative specimen does not rule out the possibility of a parasitic infection.

**Parasitology EIA Tests**

	In Range	Out of Range
<i>Cryptosporidium</i> ♦	Negative	
<i>Giardia lamblia</i> ♦	Negative	
<i>Entamoeba histolytica</i> ♦	Negative	

\*\* Indicates testing performed by Genova Diagnostics, Inc. 63 Zillicoa St., Asheville, NC 28801-0174

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.



Nordic Laboratories

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Methodology: EIA, Fecal Immunochemical Testing (FIT)



**Additional Results**

	Result	Expected Value
Consistency††	Formed/Normal	

**Lab Comments (if applicable)**

*Lab Comments*

*SENSI'S: All yeast, add'l bacteria*

††Results provided from patient input.

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**Nordic Laboratories Aps**

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