

**PATIENT INFO:**

PATIENT: Random One

COLLECTED: 11/5/2021

DOB: 11/4/2021

ACCESSION: PatientImport01

RECEIVED: 11/6/2021

COMPLETED:

**PROVIDER INFO:**

Rucks Winkeljohn,

## Introduction - Your Metabolomic Signature

*Designs for Health* is pleased to offer you Designs for Health Metabolomics Spotlight™ analysis revealing your unique metabolic signature.

Using a systems-biology approach, the test assesses biomarkers that go beyond the traditional lists of analytes. Metabolites are impacted by many factors and can change in response to diet, nutrient status, toxin exposures, exercise, physiologic demands, genetics, gut microbiome alterations, or disordered health state. Metabolic analysis can help clinicians evaluate the function of key pathways to better target support.

This test enables you to see a larger personal health picture by deciphering and connecting perturbations of key metabolic pathways and analytes, allowing for truly personalized support. Metabolomics, also called *comprehensive metabolic profiling*, evaluates patterns related to core biological systems, offering insight into biochemical dysfunctions that may be of concern. Organic acids and other small molecules are intermediate compounds that can define the efficient flow of metabolic pathways and can help in revealing the functional status of key areas of biochemistry and health.

### Your SPOTLIGHT Test Scores

Scale of 0-10, Higher Score = More Need for Support, Details on Following Pages.



Energy Metabolism



B-Vitamins



CNS-Neurotransmitters/  
Hormones



Toxic Impacts



Digestion & Microbial  
Metabolites

### Lifestyle and Supplement Recommendations:

The lifestyle and supplement recommendations included in this report are generalized and made for adults. Not all recommendations are appropriate or applicable for every individual. A knowledgeable and qualified healthcare practitioner should review all recommendations and adjust them as needed, based on the individual's age, personal health history, pregnancy or breastfeeding status, potential drug or nutrient interactions, contraindications, current supplement use, diet, lifestyle, and other relevant factors.


**SPOTLIGHT 1**

KEY: < DL = Results below detection limit.

Energy Metabolism						
Analytes Tested	Result	20%	40%	60%	80%	95% Reference Range
<b>Glycolysis</b>						
Glucose <i>Glucokinase</i>	3.1					< 15.2 mg/dL
Pyruvic Acid <i>Pyruvate dehydrogenase + B1, B2, B3, B5 LA</i>	51.2 H					< 47.2 nmol/mg Creatinine
Lactic Acid <i>Lactate dehydrogenase + B3</i>	175.0					23.1 - 722.6 nmol/mg Creatinine
Analytes Tested	Result	20%	40%	60%	80%	95% Reference Range
<b>Krebs Cycle</b>						
Citric Acid <i>Citrate synthase</i>	>2987.4					> 356.2 nmol/mg Creatinine
cis-Aconitic Acid <i>Aconitase</i>	118.5					91.3 - 363.1 nmol/mg Creatinine
Isocitric Acid <i>Isocitrate dehydrogenase + B3</i>	326.7					< 415.6 nmol/mg Creatinine
α-Ketoglutaric Acid <i>alpha-Ketoglutarate dehydrogenase + B1, B2, B3, B5, LA</i>	72.4					< 157.2 nmol/mg Creatinine
Succinic Acid <i>Succinic dehydrogenase + B2</i>	56.6					4.8 - 224.1 nmol/mg Creatinine
Fumaric Acid <i>Fumarase</i>	215.4 L					320.2 - 3375.5 nmol/mg Creatinine
Malic Acid <i>Malate dehydrogenase + B3</i>	13.9					< 21.5 nmol/mg Creatinine

The assays were developed and/or the performance characteristics determined by Diagnostic Solutions Laboratory. The results are for research and not for diagnostic purposes.

## SPOTLIGHT 1

Energy Metabolism			
Analytes Tested	Result	20% 40% 60% 80%	95% Reference Range
<b>Fatty Acid Oxidation</b>			
Adipic Acid <i>Saturated dicarboxylic acid</i>	5.7		2.0 - 15.1 nmol/mg Creatinine
Suberic Acid <i>Fatty acid oxidation + Carnitine</i>	6.5		3.0 - 29.4 nmol/mg Creatinine
Ethylmalonic Acid <i>Dicarboxylic acid</i>	11.4		5.0 - 43.3 nmol/mg Creatinine
Analytes Tested	Result	20% 40% 60% 80%	95% Reference Range
<b>Ketones</b>			
β-Hydroxybutyric Acid <i>beta-Hydroxybutyrate dehydrogenase + B3</i>	<dl		< 60.5 nmol/mg Creatinine
SPOTLIGHT Score	General Support Recommendations		
 <b>SPOTLIGHT Score Key:</b> Scale 0-10. Higher score indicates more need for support.	<b>Lifestyle and Supplement Tools for Energy Metabolism</b> Depending on your unique test outcomes, lipoic acid, CoQ10, nicotinamide riboside (NR), carnitine and B-complex might be beneficial. If the ketone marker is elevated, insulin resistance and/or participation in a ketogenic diet or intermittent fasting may be considered. Your health care provider may use this information to help determine proper selection and recommended intake related to supplement utilization, diet, and lifestyle changes.		
	<b>Designs for Health Product Considerations</b> Supplement recommendations may include <b>Lipoic Acid Supreme</b> , <b>MitoNR™</b> , and <b>Carnitine Synergy™</b> .		

**SPOTLIGHT 2**

KEY: < DL = Results below detection limit.

B-Vitamins						
Analytes Tested	Result	20%	40%	60%	80%	95% Reference Range
<b>B-Complex (B1, B2, B3, B5, LA)</b>						
Pyruvic Acid <i>Pyruvate dehydrogenase + B1, B2, B3, B5 LA</i>	51.2 H					< 47.2 nmol/mg Creatinine
α-Ketoglutaric Acid <i>alpha-Ketoglutarate dehydrogenase + B1, B2, B3, B5, LA</i>	72.4					< 157.2 nmol/mg Creatinine
Branched Chain Alpha-Keto Organic Acids <i>Branched-chain keto acid dehydrogenase + B1, B2, B3, B5, LA</i>	36.2 H					< 28.3 nmol/mg Creatinine
Analytes Tested	Result	20%	40%	60%	80%	95% Reference Range
<b>Vitamin B12</b>						
Methylmalonic Acid <i>Methylmalonyl-CoA mutase + B12</i>	8.3					2.7 - 25.9 nmol/mg Creatinine
Analytes Tested	Result	20%	40%	60%	80%	95% Reference Range
<b>Folate</b>						
Formiminoglutamic Acid <i>Glutamate formimino-transferase + Folate</i>	0.02					< 0.4 nmol/mg Creatinine
Analytes Tested	Result	20%	40%	60%	80%	95% Reference Range
<b>Vitamin B6</b>						
Xanthurenic Acid <i>Kynurenine transaminase + B6</i>	33.0 H					< 9.5 nmol/mg Creatinine
Pyridoxic Acid <i>Aldehyde oxidase</i>	23.5					< 111.9 nmol/mg Creatinine
Analytes Tested	Result	20%	40%	60%	80%	95% Reference Range
<b>Biotin</b>						
β-Hydroxyisovaleric Acid <i>Methylcrotonyl-CoA carboxylase + Biotin</i>	40.6					25.1 - 223.4 nmol/mg Creatinine

The assays were developed and/or the performance characteristics determined by Diagnostic Solutions Laboratory. The results are for research and not for diagnostic purposes.

## SPOTLIGHT 2

### B-Vitamins

#### SPOTLIGHT Score



#### SPOTLIGHT Score Key:

Scale 0-10. Higher score indicates more need for support.

#### General Support Recommendations

#### Lifestyle and Supplement Tools for Energy Metabolism

Depending on your unique test outcomes, vitamins B12, B6, folate, and/or B-complex may be beneficial. Your health care provider may use this information to help determine proper selection and recommended intake related to supplement utilization, diet, and lifestyle changes.

#### Designs for Health Product Considerations

Supplement recommendations may include **B-Supreme**, **Tricobalamin™**, **Trifolamin™**, Or **L-5-MTHF-500**.

**SPOTLIGHT 3**

KEY: < DL = Results below detection limit.

CNS-Neurotransmitters/Hormones						
Analytes Tested	Result	20%	40%	60%	80%	95% Reference Range
<b>Tryptophan Metabolism</b>						
Tryptophan <i>Tryptophan hydroxylase + BH4</i>	19.7					10.5 - 68.7 nmol/mg Creatinine
5-Hydroxyindoleacetic Acid <i>Aldehyde dehydrogenase + B3</i>	98.1 H					6.3 - 28.7 nmol/mg Creatinine
Kynurenine <i>Kynurenine mono-oxygenase (KMO) + B2</i>	5.5					< 13.7 nmol/mg Creatinine
KT Ratio <i>Kynurenine / Tryptophan</i>	0.280					0.064 - 0.638
Kynurenic Acid <i>Kynurenine transaminase + B6</i>	6.9					2.1 - 18.5 nmol/mg Creatinine
Quinolinic Acid <i>Non-enzymatic conversion</i>	37.5					9.0 - 105.7 nmol/mg Creatinine
Analytes Tested	Result	20%	40%	60%	80%	95% Reference Range
<b>Neurotransmitter</b>						
Tyrosine <i>Tyrosine hydroxylase + BH4</i>	27.7					11.4 - 126.7 nmol/mg Creatinine
γ-Aminobutyric Acid <i>gamma-Aminobutyric acid aminotransferase + B6</i>	<dl					< 2.9 nmol/mg Creatinine
Analytes Tested	Result	20%	40%	60%	80%	95% Reference Range
<b>Catecholamine Turnover</b>						
Homovanillic Acid <i>COMT + Magnesium &amp; Monoamine oxidase + B2</i>	2.8					< 10.3 nmol/mg Creatinine
Vannilylmandelic Acid <i>Monoamine oxidase + B2</i>	14.6					4.8 - 21.4 nmol/mg Creatinine
Analytes Tested	Result	20%	40%	60%	80%	95% Reference Range
<b>Steroid Hormone</b>						
Cortisol <i>11-beta-Hydroxysteroid dehydrogenase + B3</i>	14.8					< 82.0 mcg/g Creatinine

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**SPOTLIGHT 3**

**CNS-Neurotransmitters/Hormones**

**SPOTLIGHT Score**

**General Support Recommendations**



**SPOTLIGHT Score Key:**

Scale 0-10. Higher score indicates more need for support.

**Lifestyle and Supplement Tools for Energy Metabolism**

Depending on your unique test outcomes, 5-HTP, GABA, adaptogenic herbs, magnesium, B-complex, B6, taurine, L-theanine, L-tyrosine, Macuna (L - Dopa), and/or stress reducing lifestyle techniques might be beneficial. Your health care provider may use this information to help determine proper selection and recommended intake related to supplement utilization, diet, and lifestyle changes.

**Designs for Health Product Considerations**

Supplement recommendations might include **Glucosupreme™**, **CatecholaCalm™**, **DopaBoost™**, **Adrenatone™**, **L-Tyrosine**, **5-HTP**, **OmegaEvail™**, and **pharma-GABA**.

**SPOTLIGHT 4**

KEY: < DL = Results below detection limit.

Toxic Impacts			
Analytes Tested	Result	20% 40% 60% 80%	95% Reference Range
<b>Oxidative Damage</b>			
8-Hydroxy-2'-deoxyguanosine <i>DNA oxidation</i>	<dl		< 8.4 nmol/mg Creatinine
Analytes Tested	Result	20% 40% 60% 80%	95% Reference Range
<b>Urea Cycle</b>			
Arginine <i>Arginase &amp; Nitric oxide synthase</i>	9.9		< 31.4 nmol/mg Creatinine
Citrulline <i>Argininosuccinate synthase</i>	7.4		< 13.6 nmol/mg Creatinine
Ornithine <i>Ornithine transcarbamylase</i>	8.7		< 63.0 nmol/mg Creatinine
Analytes Tested	Result	20% 40% 60% 80%	95% Reference Range
<b>Kidney Impacts</b>			
Orotic Acid <i>Uridine monophosphate synthase</i>	1.9		0.7 - 6.0 nmol/mg Creatinine
Microalbumin <i>Blood protein</i>	17.5		< 130.4 mcg/mg Creatinine
Creatinine <i>Creatine breakdown</i>	69.7		29.3 - 296.8 mg/dL
Oxalic Acid <i>Divalent metallic cations</i>	253.7		< 1532.5 nmol/mg Creatinine



## SPOTLIGHT 4

### Toxic Impacts

Analytes Tested	Result	20% 40% 60% 80%	95% Reference Range
<b>Toxins</b>			
2-Methylhippuric Acid <i>Xylene exposure</i>	0.3		< 2.1 nmol/mg Creatinine
Mandelic Acid <i>Styrene exposure</i>	2.1		< 4.6 nmol/mg Creatinine
Benzoylform <i>Styrene exposure</i>	1.7		< 4.3 nmol/mg Creatinine
Glucaric Acid <i>Glucuronic Acid Pathway</i>	15.4		3.6 - 25.8 nmol/mg Creatinine
Analytes Tested	Result	20% 40% 60% 80%	95% Reference Range
<b>Detox</b>			
Homocystine <i>Methionine synthase + B12</i>	<dl		< 5.7 nmol/mg Creatinine
Sulfocysteine <i>Sulfite oxidase (SOX) + Mo</i>	10.7 H		< 8.8 nmol/mg Creatinine
Cystine <i>Oxidation</i>	19.1		9.7 - 96.1 nmol/mg Creatinine
α-Hydroxybutyric Acid <i>Dehydrogenase + B3</i>	23.7		10.6 - 62.6 nmol/mg Creatinine
Pyroglutamic Acid <i>5-Oxoprolinase</i>	98.7 H		< 72.7 nmol/mg Creatinine

**SPOTLIGHT 4**

**Toxic Impacts**

**SPOTLIGHT Score**

**General Support Recommendations**



**SPOTLIGHT Score Key:**

Scale 0-10. Higher score indicates more need for support.

**Lifestyle and Supplement Tools for Energy Metabolism**

Depending on your unique test outcomes, glutathione, various antioxidants, B-complex, NAC, glycine, glutamine, taurine, ornithine, MSM, and/or methionine may be beneficial. Your health care provider may use this information to help determine proper selection and recommended intake related to supplement utilization, diet, and lifestyle changes.

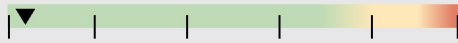

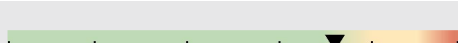
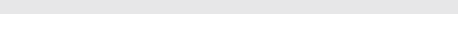

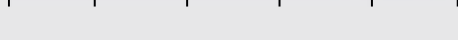
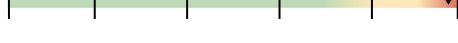
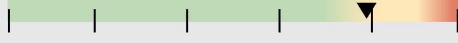


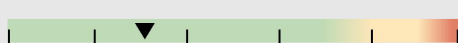
**Designs for Health Product Considerations**

Supplement recommendations may include **Detox Antiox™**, **Kidney Korrekt™**, **Homocysteine Supreme™**, **B-Supreme**, **S-Acetyl Glutathione Synergy** and **Amino-D-Tox™**.

**SPOTLIGHT 5**

KEY: < DL = Results below detection limit.

**Digestion & Microbial Metabolites**

Analytes Tested	Result	20% 40% 60% 80%	95% Reference Range
<b>Amino Acid Microbial Metabolites</b>			
Proline <i>Prolyl hydroxylase + Vitamin C</i>	<dl		< 14.7 nmol/mg Creatinine
Hydroxyproline <i>4-Hydroxyproline oxidase</i>	10.9		< 25.3 nmol/mg Creatinine
Glycylproline <i>Dipeptide of Glycine + Proline</i>	10.8		< 18.9 nmol/mg Creatinine
4-Hydroxyphenylacetic Acid <i>Disordered tyrosine metabolism</i>	121.6		85.8 - 902.3 nmol/mg Creatinine
Indoleacetic Acid <i>Disordered tryptophan metabolism</i>	17.0 H		< 13.7 nmol/mg Creatinine
3,4-Dihydroxyhydrocinnamic Acid <i>Polyphenol metabolite</i>	3.1		< 1490.3 nmol/mg Creatinine
3,5-Dihydroxybenzoic Acid <i>Microbial metabolite</i>	111.7		< 277.1 nmol/mg Creatinine
4-Hydroxybenzoic Acid <i>Hydroxybenzoic acid derivative</i>	2.5		< 14.9 nmol/mg Creatinine
Benzoic Acid <i>Glycine N-benzoyltransferase</i>	9.3		< 488.0 nmol/mg Creatinine
Hippuric Acid <i>Glycine conjugate of benzoate</i>	585.8 H		< 291.9 nmol/mg Creatinine
Analytes Tested	Result	20% 40% 60% 80%	95% Reference Range
<b>Fungal Assessment</b>			
Arabinitol <i>Dehydrogenase</i>	2.1		< 9.0 nmol/mg Creatinine

The assays were developed and/or the performance characteristics determined by Diagnostic Solutions Laboratory. The results are for research and not for diagnostic purposes.

## SPOTLIGHT 5

### Digestion & Microbial Metabolites

#### SPOTLIGHT Score

#### General Support Recommendations



#### SPOTLIGHT Score Key:

Scale 0-10. Higher score indicates more need for support.

#### Lifestyle and Supplement Tools for Energy Metabolism

Depending on your unique test outcomes, digestive enzymes, probiotics, collagen peptides, and/or certain botanicals to address microbial imbalance may be beneficial. Your health care provider may use this information to help determine proper selection and recommended intake related to supplement utilization, diet, and lifestyle changes.

#### Designs for Health Product Considerations

Supplement recommendations may include **Digestzymes™**, **GI Microb-X™**, **ProbioMed™-100**, **Oil of Oregano™**, and **Whole Body Collagen**.

### Summary and Recommendations:

Below are your supplement recommendations, as determined by the algorithmic assessment of your test results. Your healthcare practitioner should review all recommendations and adjust them as needed, based on your age, personal health history, pregnancy or breastfeeding status, potential drug or nutrient interactions, contraindications, current supplement use, diet, lifestyle, and other relevant factors.

#### Designs for Health Product Recommendations

Name	How to Take
<b>5-HTP Supreme™</b>	Take 1 capsule per day or as directed by your health-care practitioner.
<b>Amino-D-Tox™</b>	Take 6 capsules per day between meals or as directed by your health-care practitioner.
<b>B-Supreme</b>	Take 2 capsules per day or as directed by your health-care practitioner.
<b>Digestzymes™</b>	Take 1 capsule per day with a meal or as directed by your health-care practitioner.
<b>L-Tyrosine</b>	Take 2 capsules per day on an empty stomach or as directed by your health-care practitioner.
<b>Mitro-NR™</b>	Take 2 capsules per day with a meal or as directed by your health-care practitioner.
<b>S-Acetyl Glutathione Synergy</b>	Take 2 capsules per day or as directed by your health-care practitioner.

**\*This statement has not been evaluated by the Food and Drug Administration. This product is not intended to diagnose, treat, cure, or prevent any disease.**

**The Designs for Health Spotlight™ tests are not diagnostic and are not eligible for coverage under Medicare, Medicaid, or medical insurance.**

**Designs for Health Metabolomics Spotlight™, Tricobalamin™, Trifolamin™ Glucosupreme™, CatecholaCalm™, DopaBoost™, Adrenatone™, L-Tyrosine, 5-HTP, OmegaEvail™, pharmaGABA®, Detox Antiox™, Amino-D-Tox™, Digestzymes™, GI Microb-X™, Kidney Korrek™, Homocysteine Supreme™, Oil of Oregano™, MitoNR™, and ProbioMed™ are trademarks of Designs for Health Inc.**

“The opinions and supplement recommendations in this report have been added by Designs for Health, and do not necessarily reflect the position of Diagnostic Solutions Laboratory. All results should be evaluated by a licensed healthcare professional.”

**PATIENT INFO:**

PATIENT: Sample Jane Doe  
COLLECTED: 5/1/2022  
DOB: 1/7/1959

ACCESSION: 00000000-101  
RECEIVED: 5/2/2022  
COMPLETED: 5/5/2022

**PROVIDER INFO:**

First Health Clinic Sample Report  
Practitioner Name  
321 Main Street, Mycity, US - 7654321

## Introduction – Gastrointestinal Analysis

Designs for Health is pleased to present the GI-Spotlight analysis, providing an in-depth look into the state of GI function and microbiome.

The human gastrointestinal tract contains an ecosystem with over 4 trillion microbes, living in a symbiotic relationship with their host. These microbes, when in a healthy state and balance, are responsible for performing duties essential to your health such as supporting normal digestion, hormonal balance, immune modulation, and neurotransmitter function.

This report contains a unique, in-depth assessment into many of the key microbes essential for human health. The microbes are measured using the most precise molecular analysis known as qPCR (quantitative PCR), useful for assessing absolute values – *versus only relative abundance found using sequencing methods* – and determining the accurate number of microbes, as provided on the report. This report contains many of the most well researched microbes, keystone species, and those with the greatest known correlation to functional categories listed in the report.

This is not a test constructed or intended for medical diagnosis. These results are intended to be used by your health care provider to personalize supplementation, diet and lifestyle recommendations based on your unique GI microbiome and functional status.

**Note:** Microbial results are reported as genome equivalents per gram of stool, which is a standard method for reporting the number of microbes measured per gram of stool, based on qPCR analysis of DNA samples. Results are expressed in standard scientific notation. For example, a reported result of 3.5e7 is equivalent to 3.5 x 10<sup>7</sup> microbes per gram, which equals 35,000,000 (35 million) microbes per gram of stool. <dl represents results below detectable limit.

### Your SPOTLIGHT Test Scores

Scale of 0–10. Higher Score = More Need for Support. (Details on Following Pages.)



Microbiome  
Keystone Diversity



Gut Barrier  
Integrity



Inflammatory Balance  
(Lipopolysaccharide/LPS)



Digestive  
Sufficiency/Functionality



Immune  
Response/Tolerance



Fungal  
Balance

### Lifestyle and Supplement Suggestions:

The lifestyle and supplement recommendations included in this report are generalized and intended for adults. Not all recommendations are appropriate or applicable for every individual. A knowledgeable and qualified healthcare practitioner should review all recommendations and adjust them as needed, based on the individual's age, personal health history, pregnancy or breastfeeding status, potential drug or nutrient interactions, contraindications, current supplement use, diet, lifestyle, and other relevant factors.

**SPOTLIGHT 1**

**KEY:** < DL= Results below detection limit.

**Microbiome Keystone Diversity**

Category	Analytes Tested		Result	Range
<b>Microbial Diversity &amp; Balance</b>	<i>Bacteroides phylum</i>		<b>1.21e12</b>	8.6e11 - 3.3e12
	<i>Firmicutes phylum</i>	<b>Low</b>	<b>4.70e10</b>	5.7e10 - 3.0e11
	<i>Firmicutes:Bacteroidetes Ratio</i>		<b>0.04</b>	<1.0
	<i>Bifidobacterium spp.</i>		<b>2.4e10</b>	>6.70e7
	<i>Lactobacillus spp.</i>	<b>Low</b>	<b>3.7e4</b>	8.6e5 - 6.20e8
	<i>Enterococcus spp.</i>		<b>4.9e7</b>	1.9e5 - 2.0e8
	<i>Escherichia spp.</i>	<b>Low</b>	<b>6.1e5</b>	3.7e6 - 3.8e9
	<i>Akkermansia muciniphilia</i>	<b>Low</b>	<b>&lt;dl</b>	1.0e1 - 5.0e4
	<i>Faecalibacterium prausnitzii</i>		<b>9.56e5</b>	1.0e3 - 5.0e8
	Total sIgA		<b>1873</b>	510 - 2010 ug/g
	<i>Roseburia spp.</i>	<b>Low</b>	<b>4.70.e10</b>	5.7e10 - 2.0e10

**SPOTLIGHT Score**

**General Support Recommendations**



**SPOTLIGHT Score Key:**  
Scale of 0–10. Higher score indicates more need for support.

**Lifestyle and Supplement Tools to Improve Diversity**


The use of a broad-spectrum probiotics, prebiotics, and polyphenols, in addition to a whole-food diet rich in vegetables and fruits can promote greater diversity and richness of the GI microbiota.

**Designs for Health Product Considerations**

**ProbioMed™ 50, FloraMyces™, PhytoBiome™, PaleoFiber® RS, IgGI Shield™, Tegriceal Colostrum, Tri-Butyryn Supreme™.**

**SPOTLIGHT 2**

**KEY:** < DL= Results below detection limit.

Gut Barrier Integrity				
Category	Analytes Tested		Result	Range
Intestinal Permeability/ Barrier Function	Anti-gliadin sIgA		15	<175 U/L
	Zonulin		186.4	<107 ng/g
	<i>Enterococcus</i> spp.		4.9e7	1.9e5 - 2.0e8
	<i>Akkermansia muciniphilia</i>	Low	<dl	1.0e1 - 5.0e4
	<i>Candida albicans</i>		<dl	<5.00e2
	<i>Faecalibacterium prausnitzii</i>		9.56e5	1.0e3 - 5.0e8
	<i>Roseburia</i> spp.	Low	6.1e5	5.0e7 - 2.0e10
	<i>Firmicutes</i> phylum		1.25e11	5.7e10 - 3.0e11
	<i>Bifidobacterium</i> spp.		2.4e10	>6.70e7
	<i>Escherichia</i> spp.	Low	6.1e5	3.7e6 - 3.8e9
	<i>Lactobacillus</i> spp.	Low	3.7e4	8.6e5 - 6.2e8
	<i>Enterobacter</i> spp.		9.16e6	1.0e6 - 5.0e7
SPOTLIGHT Score		General Support Recommendations		
 <p><b>SPOTLIGHT Score Key:</b> Scale of 0–10. Higher score indicates more need for support.</p>		<p><b>Lifestyle and Supplement Tools for Gut Barrier Integrity</b></p> <p>Consumption of a wide variety of plant-based foods; consider a gluten-free diet; avoid processed foods, refined sugars, and excess alcohol. Avoid environmental toxins. Engage in appropriate stress management and sleep hygiene.</p>		
		<p><b>Designs for Health Product Considerations</b></p> <p>GI Revive™, ProbioMed™ 50, Tri-Butyrin™ Supreme, IgGI Shield™.</p>		



**SPOTLIGHT 3**

**KEY:** < DL= Results below detection limit.

Inflammatory Balance/LPS				
Category	Analytes Tested		Result	Range
Inflammatory Balance (LPS)	<i>Escherichia</i> spp.	Low	6.1e5	3.7e6 - 3.8e9
	<i>Escherichia</i> spp.	Low	6.1e5	3.7e6 - 3.8e9
	<i>Enterobacter</i> spp.		9.16e6	1.0e6 - 5.0e7
	<i>Morganella</i> spp.		<dl	<1.00e3
	<i>Pseudomonas</i> spp.	High	7.37e4	<1.00e4
	<i>Pseudomonas aeruginosa</i>		<dl	<5.00e2
	<i>Klebsiella</i> spp.	High	2.48.e4	<5.00e3
	<i>Prevotella</i> spp.		<dl	<1.00e8
	<i>Proteus</i> spp.		<dl	<5.00e4
	<i>Proteus mirabilis</i>		<dl	<1.00e3
	<i>Citrobacter</i> spp.	High	7.37e7	<5.00e6
	<i>Fusobacterium</i> spp.	High	2.50e9	<1.00e8

**SPOTLIGHT Score**      **General Support Recommendations**



**SPOTLIGHT Score Key:**  
Scale of 0–10. Higher score indicates more need for support.

**Lifestyle and Supplement Tools to Reduce Inflammation**

Consumption of a whole food based anti-inflammatory and or elimination diet. Until more optimal digestive function is restored, avoid excessive protein.

**Designs for Health Product Considerations**

GI Microb-X™, Oil of Oregano, ProbioMed™ 50, GI Revive®, IgGI Shield™.

**SPOTLIGHT 4**

**KEY:** < DL= Results below detection limit.

Digestive Sufficiency/Functionality				
Category	Analytes Tested		Result	Range
Digestive Sufficiency/Functionality	<i>Bacteroides</i> phylum	Low	4.33e11	8.6e11 - 3.3e12
	<i>Firmicutes</i> phylum		1.25e11	5.7e10 - 3.0e11
	<i>Enterococcus</i> spp.		4.9e7	1.9e5 - 2.0e8
	<i>Enterococcus faecalis</i>		2.56e3	<1.00e4
	<i>Enterococcus faecium</i>		1.11e3	<1.00e4
	<i>Lactobacillus</i> spp.	Low	3.7e4	8.6e5 - 6.2e8
	<i>Clostridia</i> (class)		6.25e6	5.0e5 - 5.0e7
	<i>Akkermansia muciniphilia</i>	Low	<dl	1.0e1 - 5.0e4
	<i>Staphylococcus</i> spp.		1.25e11	<1.00e4
	<i>Staphylococcus aureus</i>		1.23e1	<5.00e2
	<i>Methanobacteriaceae</i> (family)		3.70e7	<5.00e9
	<i>Streptococcus</i> spp.	High	1.34e3	<1.00e3
	Steatocrit		6	<15%
	Pancreatic Elastase-1		388	>200 ug/g
	<i>Fusobacterium</i> spp.		6.16e5	<1.00e8
<i>Bacillus</i> spp.		2.56e5	<1.76e6	

**SPOTLIGHT Score**      **General Support Recommendations**



**SPOTLIGHT Score Key:**  
Scale of 0–10. Higher score indicates more need for support.

**Lifestyle and Supplement Tools to Support Digestion**


Lifestyle practices to support digestion – adequate chewing, lemon water, apple cider vinegar with meals. Consumption of a diversity of plant-based fibers. Engaging in sleep hygiene and stress management practices. Dietary approaches may include FODMAPS, Specific Carbohydrate Diet (SCD), and Gluten-Free (GF).

**Designs for Health Product Considerations**

Digestzymes™, LV-GB Complex™.


**SPOTLIGHT 5**

**KEY:** < DL= Results below detection limit.

Immune Response/Tolerance				
Category	Analytes Tested		Result	Range
Histamine Tolerance	<i>Morganella</i> spp.		<dl	<1.00e3
	<i>Klebsiella</i> spp.	High	2.48.e4	<5.00e3
	<i>Klebsiella pneumoniae</i>		1.41e4	<5.00e4
	<i>Pseudomonas</i> spp.	High	7.37e4	<1.00e4
	<i>Pseudomonas aeruginosa</i>		<dl	<5.00e2
	<i>Citrobacter freundii</i>		<dl	<5.00e5
	<i>Proteus</i> spp.		<dl	<5.00e4
	<i>Proteus mirabilis</i>		<dl	<1.00e3
Food Tolerance	<i>Staphylococcus aureus</i>		3.83e2	<5.00e2
	<i>Pseudomonas aeruginosa</i>		<dl	<5.00e2
	<i>Lactobacillus</i> spp.	Low	3.7e4	8.6e5 - 6.2e8
	Anti-gliadin sIgA		15	0 - 157 U/L
	Total sIgA		1873	510 - 2010 ug/g
SPOTLIGHT Score	General Support Recommendations			
 <p><b>SPOTLIGHT Score Key:</b> Scale of 0–10. Higher score indicates more need for support.</p>	<p><b>Lifestyle and Supplement Tools to Improve Tolerance</b></p> <p>Lifestyle practices to improve tolerance: consider low histamine diet, histamine-degrading (DAO) enzyme supplementation with meals, and/or gluten free diet. Consider antibody or cellular response testing for food sensitivities or food allergies.</p>			
	<p><b>Designs for Health Product Considerations</b></p> <p>HistaGest DAO™, AllergyZyme™.</p>			

**SPOTLIGHT 6**

**KEY:** < DL= Results below detection limit.

Fungal Balance				
Category	Analytes Tested		Result	Range
Fungal Balance	<i>Candida</i> spp.		<b>High</b> 4.53e4	<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
SPOTLIGHT Score	General Support Recommendations			
 <p><b>SPOTLIGHT Score Key:</b>            Scale of 0–10. Higher score indicates more need for support.</p>	<p><b>Lifestyle and Supplement Tools to Support Healthy Gut Fungal Balance</b></p> <hr/> <p>Lifestyle practices to support fungal balance: Avoid refined sugars and processed foods; consider carbohydrate-controlled diet; avoid alcohol. Candida Diet or Specific Carbohydrate Diet (SCD).</p> <p><b>Designs for Health Product Considerations</b></p> <hr/> <p>GI Microb-X™, Oil of Oregano, ProbioMed™ 50, GI Revive®, IgGI Shield™.</p>			

## Summary and Recommendations:

Below are your supplement recommendations, as determined by the algorithmic assessment of your test results. Your healthcare practitioner should review all recommendations and adjust them as needed based on your age, personal health history, pregnancy or breastfeeding status, potential drug or nutrient interactions, contraindications, current supplement use, diet, lifestyle, and other relevant factors.

More personalized dosing, specific dietary recommendations, assessment of progression, duration, and integration of all suggestions should be reviewed, clinically contextualized and curated by the managing healthcare provider.

Designs for Health Product Recommendations	
Name	How to Take
<b>GI Microb-X™</b>	Take 1 capsule per day on an empty stomach or as directed by your health-care practitioner.
<b>FloraMyces™</b>	Take 2 capsules per day or as directed by your health-care practitioner.
<b>Digestzymes™</b>	Take 1 capsule per day with a meal or as directed by your health-care practitioner.
<b>LV-GB Complex™</b>	Take 3 capsules per day with meals or as directed by your health-care practitioner.
<b>PhytoBiome™</b>	Take 3 capsules per day or as directed by your health-care practitioner.
<b>Tri-Butyrin™ Supreme</b>	Take 1 softgel per day or as directed by your health-care practitioner.
<b>ProbioMed™ 50</b>	Take 1 capsule per day with a meal or as directed by your health-care practitioner.
<b>PaleoFiber® RS</b>	Take 10 grams (approximately one scoop) per day or as directed by your health-care practitioner.
<b>IgGI Shield™</b>	Mix 3.5 grams (approximately one scoop) in water or other liquid per day or as directed by your health-care practitioner.
<b>HistaGest DAO™</b>	Take 1 tablet just prior to the consumption of histamine-rich foods or as directed by your health-care practitioner. (Take by mouth and swallow whole 20 minutes before meals.)
<b>Tegricel® Colostrum</b>	Take 2 capsules per day or as directed by your health-care practitioner.
<b>Oil Of Oregano</b>	Take 1 softgel per day with a meal or as directed by your health-care practitioner.
<b>GI Revive®</b>	Mix 8 grams (approximately one scoop) in water or other liquid per day or as directed by your health-care practitioner.

\*This statement has not been evaluated by the Food and Drug Administration. This product is not intended to diagnose, treat, cure, or prevent any disease.

The Designs for Health Spotlight™ tests are not diagnostic and are not eligible for coverage under Medicare, Medicaid, or medical insurance.

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