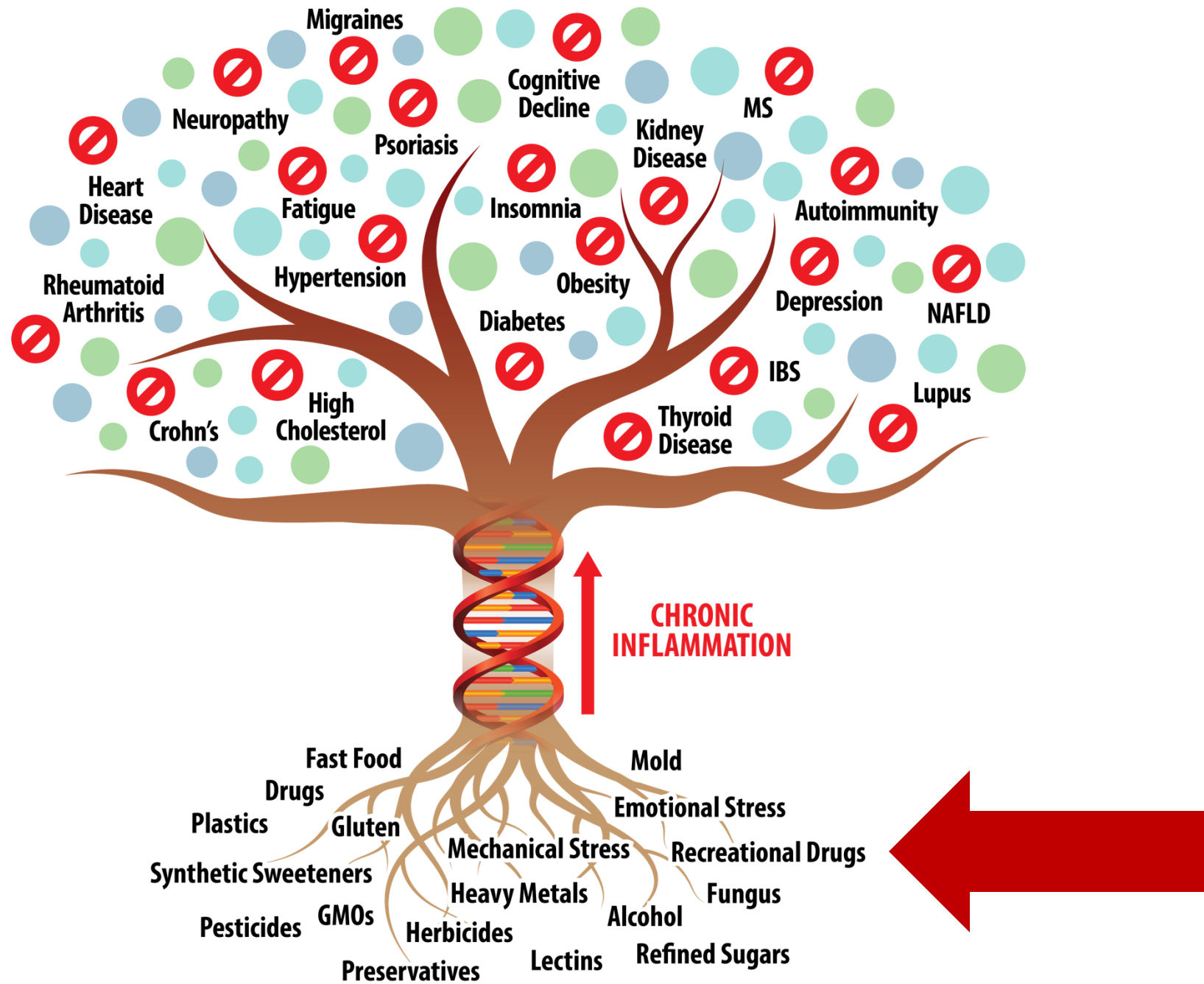


Casual Friday Series

# Tox Panel Applications

A BIOGENETIX CLINICAL PRESENTATION  
[biogenetix.com](http://biogenetix.com)





## 5 Most Commonly Recommended Tests

**Biogenetix  
General  
Screen**

**Genova Dx  
GI Effects**

**DUTCH  
Complete**

**Vibrant  
Wellness  
Total Tox**

**Infinite  
Allergy Labs  
FAST88**



## 5 Most Commonly Recommended Tests

**Biogenetix  
General  
Screen**

**Genova Dx  
GI Effects**

**DUTCH  
Complete**

**Vibrant  
Wellness  
Total Tox**

**Infinite  
Allergy Labs  
FAST88**



# Total Tox Burden Test

[Get Started](#)[At Home Test Available](#)

Toxic exposure is a reality of our daily lives, but toxic overload can stress our bodily systems and manifest in various ways. Toxins can lead to elevated oxidative stress and increase demand on the body's detoxification pathways, particularly in the liver. When the liver can't adequately eliminate toxins or infectious byproducts, these toxins can clog up normal detox pathways and lead to a range of chronic inflammation symptoms. If you're experiencing multiple chronic symptoms and can't lose weight despite diet and exercise, you could be carrying a high toxic burden.

## Sample Type

[Urine](#)[Explore Collection Instruction](#) →

## What's included

- ✓ Sample Collection Kit
- ✓ Comprehensive Personalized Report
- ✓ Free Sample Return Shipping

## Additional Resources

## Do you struggle with these symptoms?

- Fatigue and weakness
- Chronic burning in the throat and nasal passages
- Coughing, wheezing, shortness of breath
- Balance loss or dizziness
- Depression or anxiety
- Eye irritation or tearing
- Headache and light sensitivity
- Heightened sensitivity to chemicals in foods
- Disorientation
- Metallic taste in the mouth
- Irregular heartbeat
- Morning stiffness or joint pain
- Mood swings
- Muscle weakness
- Skin rashes
- Sleep problems
- Vision or hearing changes
- Poor memory, difficulty finding words
- Difficulty concentrating
- Unusual skin sensations, tingling, and numbness
- Increased urinary frequency or thirst
- Abdominal pain, diarrhea, or bloating
- Static shocks

<b>Urine Creatinine</b>			
<b>Heavy Metals</b>	<ul style="list-style-type: none"> <li>Aluminum</li> <li>Antimony</li> <li>Arsenic</li> <li>Barium</li> <li>Beryllium</li> <li>Bismuth</li> <li>Cadmium</li> </ul>	<ul style="list-style-type: none"> <li>Cesium</li> <li>Gadolinium</li> <li>Lead</li> <li>Mercury</li> <li>Nickel</li> <li>Palladium</li> <li>Platinum</li> </ul>	<ul style="list-style-type: none"> <li>Tellurium</li> <li>Thallium</li> <li>Thorium</li> <li>Tin</li> <li>Tungsten</li> <li>Uranium</li> </ul>
<b>Mycotoxins</b>	<ul style="list-style-type: none"> <li>Aflatoxin M1</li> <li>Aflatoxin B1</li> <li>Aflatoxin B2</li> <li>Aflatoxin G1</li> <li>Aflatoxin G2</li> <li>Sterigmatocystin</li> <li>Zearalenone</li> <li>Fumosinins B1</li> <li>Fumosinins B2</li> <li>Fumosinins B3</li> </ul>	<ul style="list-style-type: none"> <li>Citrinin</li> <li>Mycophenolic Acid</li> <li>Roridin E</li> <li>Enniatin B1</li> <li>Verracurin A</li> <li>Verracurin J</li> <li>Deoxynivalenol (DON)</li> <li>Nivalenol (NIV)</li> <li>Diacetoxyscirpenol (DAS)</li> <li>T-2 toxin</li> </ul>	<ul style="list-style-type: none"> <li>Satratoxin G</li> <li>Satratoxin H</li> <li>Roridin A</li> <li>Roridin L-2</li> <li>Ochratoxin A</li> <li>Patulin</li> <li>Dihydrocitrinone</li> <li>Gliotoxin</li> <li>Chaetoglobosin A</li> </ul>
<b>Environmental Chemicals</b>	<ul style="list-style-type: none"> <li>2,4-Dichlorophenoxyacetic Acid (2,4-D)</li> <li>Perchlorate</li> <li>2,2-bis(4-Chlorophenyl)acetic acid (DDA)Diethyldithiophosphate (DEDTP)</li> <li>Dimethyldithiophosphate (DMDTP)</li> <li>Diethylthiophosphate (DETP)</li> <li>Dimethylphosphate (DMP)</li> <li>Diethylphosphate (DEP)</li> <li>Dimethylthiophosphate (DMTP)</li> <li>Atrazine</li> <li>Atrazine mercapturate</li> <li>Glyphosate</li> <li>3-Phenoxybenzoic Acid (3PBA)</li> <li>Monoethyl Phthalate (MEP)</li> <li>mono-2-ethylhexyl phthalate (MEHP)</li> </ul>	<ul style="list-style-type: none"> <li>mono-(2-ethyl-5-hydroxyhexyl) phthalate (MEHHP)</li> <li>mono-(2-ethyl-5-oxohexyl) phthalate (MEOHP)</li> <li>Mono-ethyl phthalate (MEtP)</li> <li>Methylparaben</li> <li>Propylparaben</li> <li>Butylparaben</li> <li>Ethylparaben</li> <li>N-acetyl-S-(2-carbamoyl-ethyl)-cysteine (NAE)</li> <li>N-Acetyl (2-Cyanoethyl) Cysteine (NACE)</li> <li>N-Acetyl (2-Hydroxypropyl) Cysteine (NAHP)</li> <li>N-Acetyl (3,4-Dihydroxybutyl) Cysteine (NADB)</li> </ul>	<ul style="list-style-type: none"> <li>2-Hydroxyethyl Mercapturic Acid (HEMA)</li> <li>N-Acetyl Propyl Cysteine (NAPR)</li> <li>Diphenyl Phosphate (DPP)</li> <li>Tiglylglycine (TG)</li> <li>Bisphenol A (BPA)</li> <li>Triclosan</li> <li>4-Nonylphenol</li> <li>2-Methylhippuric Acid (2MHA)</li> <li>3-Methylhippuric Acid (3MHA)</li> <li>4-Methylhippuric Acid (4MHA)</li> <li>2-Hydroxyisobutyric Acid (2HIB)</li> <li>Phenylglyoxylic Acid (PGO)</li> <li>N-acetyl phenyl cysteine (NAP)</li> </ul>

RESOURCES

# At Vibrant, Science Drives Everything

With more than 400 clinical researchers and scientists testing everyday, science and technology is at the core of what we do. We are excited to share and validate our work with the peers in the industry.

- ALL
- Food Reactions
- Autoimmune
- Cardiac Health
- Infections
- Gut Health
- Hormones
- Nutrients
- Cardiovascular Health
- Neural Health
- Longevity

 American Gastroenterological Association  
2019

**Synthetic Neopeptides of the Transglutaminase Deamidated Gliadin Complex as Biomarkers for Diagnosing and Monitoring Celiac Disease**

[View More](#)

 Hindawi  
2019

**Overlap of Characteristic Serological Antibodies in Rheumatoid Arthritis and Wheat Related Disorders**

[View More](#)

 Sage  
2018

**High Frequency of Extractable Nuclear Autoantibodies in Wheat Related Disorders**

[View More](#)

 Taylor & Francis  
Taylor & Francis Group  
2019

**Insights into cardiovascular risk and nutritional status in subjects with wheat related disorders**

[View More](#)

→ <https://www.vibrant-wellness.com/ScienceAndResearch>



## Terms for the next 10 years.

1. **Diabetogen** – capacity to produce or cause diabetes.
2. **Obesogen** – a chemical that can promote weight gain by disrupting the body's ability to control appetite, metabolism, and fat accumulation.
3. **Carcinogen** – any chemical or compound that promotes or causes cancer in any form.

64 yo M  
Construction  
6'2" 235

DM2  
Cancer  
Anxiety  
Memory Loss  
ED

Jardiance  
Metformin  
TRT  
Levo

Test	Current Result and Flag	Previous Result and Date	Units	Reference Interval
▲ <b>Hemoglobin A1c</b> <sup>01</sup>	<b>8.7 High</b>		%	4.8-5.6

Please Note:<sup>01</sup>

Prediabetes: 5.7 - 6.4  
Diabetes: >6.4  
Glycemic control for adults with diabetes: <7.0

Test	Current Result and Flag	Previous Result and Date	Units	Reference Interval
Lipids <sup>01</sup>				

▲ <b>Cholesterol, Total</b> <sup>01</sup>	<b>297 High</b>		mg/dL	100-199
▲ <b>Triglycerides</b> <sup>01</sup>	<b>230 High</b>		mg/dL	0-149
HDL Cholesterol <sup>01</sup>	47		mg/dL	>39
▲ <b>VLDL Cholesterol Cal</b>	<b>45 High</b>		mg/dL	5-40
▲ <b>LDL Chol Calc (NIH)</b>	<b>205 High</b>		mg/dL	0-99

LDL Calc Comment:

































Consider evaluating for Familial Hypercholesterolemia(FH), if clinically indicated.

▲ <b>T. Chol/HDL Ratio</b>	<b>6.3 High</b>		ratio	0.0-5.0
----------------------------	-----------------	--	-------	---------

Test	Current Result and Flag	Previous Result and Date	Units	Reference Interval
▲ <b>TSH</b> <sup>01</sup>	<b>34.100 High</b>		uIU/mL	0.450-4.500
Thyroxine (T4) <sup>01</sup>	6.9		ug/dL	4.5-12.0
T3 Uptake <sup>01</sup>	25		%	24-39
Free Thyroxine Index	1.7			1.2-4.9

### High (>95th percentile)

Mycotoxins Environmental Toxins

TEST NAME	CURRENT RESULT	PREVIOUS RESULT	CURRENT RESULT	PREVIOUS RESULT	REFERENCE
 Aflatoxin G1	17.7				≤6.53 ng/g
 Diacetoxyscirpenol (DAS)	14.78				≤4.27 ng/g
 Fumonisin B1	6.78				≤6.13 ng/g
 Mono-(2-ethyl-5-hydroxyhexyl) phthalate (MEHHP)*	133.52				≤37.7 ug/g
 Mono-(2-ethyl-5-oxohexyl) phthalate (MEOHP)*	29.04				≤23.4 ug/g
 Aflatoxin B1 (AFB1)	6.75				≤6.93 ng/g
 Nivalenol (NIV)	2.31				≤3.2 ng/g
 Zearalenone (ZEN)	0.5				≤0.67 ng/g
 Aluminum	21.24				≤45.15 ug/g
 Arsenic*	11.97				≤52 ug/g
 Cadmium*	0.59				≤0.8 ug/g
 Bisphenol A (BPA)*	2.41				≤5.09 ug/g
 Dimethyl phosphate (DMP)*	12.27				≤33.6 ug/g
 Dimethyldithiophosphate (DMDTP)*	0.87				≤6.12 ug/g
 Tiglylglycine (TG)	0.15				≤3.24 ug/g
 Triclosan (TCS)*	53.4				≤358 ug/g

75 yo F  
Retired Mail Carrier  
4'11" 155

DM2  
Depression  
Insomnia  
Cystitis  
Osteo

Glimepiride  
Atorvastatin  
Omeprazole  
HCTZ

Test	Current Result and Flag	Previous Result and Date	Units	Reference Interval
▲ <b>Hemoglobin A1c</b> <sup>01</sup>	<b>7.5 High</b>		%	4.8-5.6

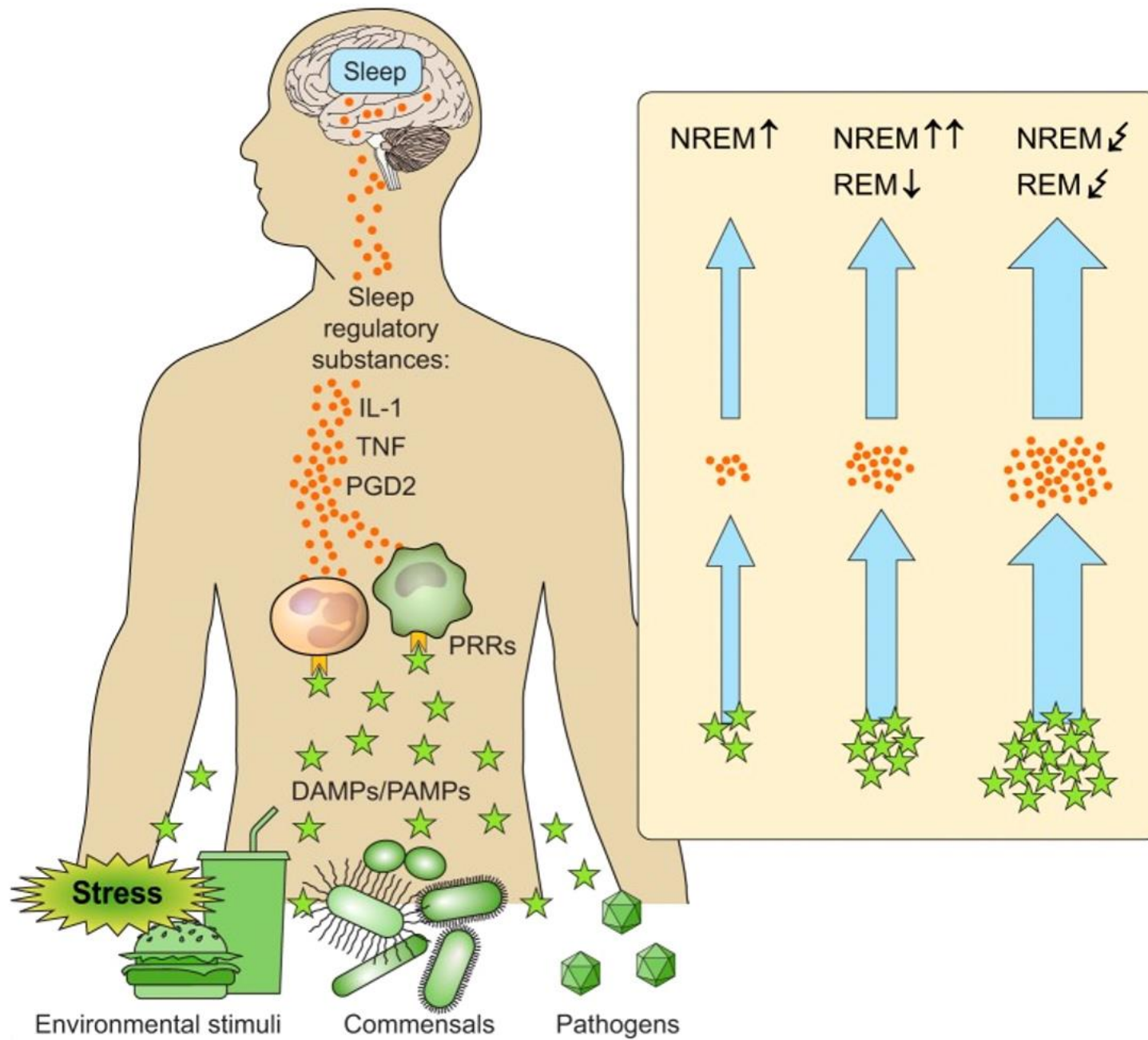
Please Note:<sup>01</sup>

Prediabetes: 5.7 - 6.4  
Diabetes: >6.4  
Glycemic control for adults with diabetes: <7.0

Estim. Avg Glu (eAG)	169		mg/dL	
----------------------	-----	--	-------	--

Test	Current Result and Flag	Previous Result and Date	Units	Reference Interval
Lipids <sup>01</sup>				
Cholesterol, Total <sup>01</sup>	180		mg/dL	100-199
Triglycerides <sup>01</sup>	136		mg/dL	0-149
HDL Cholesterol <sup>01</sup>	52		mg/dL	>39
VLDL Cholesterol Cal	24		mg/dL	5-40
▲ <b>LDL Chol Calc (NIH)</b>	<b>104 High</b>		mg/dL	0-99
T. Chol/HDL Ratio	3.5		ratio	0.0-4.4

Test	Current Result and Flag	Previous Result and Date	Units	Reference Interval
▲ <b>C-Peptide, Serum</b> <sup>01</sup>	<b>5.7 High</b>		ng/mL	1.1-4.4
C-Peptide reference interval is for fasting patients.				



## High (>95th percentile)



Mycotoxins



Heavy Metals




















Environmental Toxins

TEST NAME	CURRENT RESULT	PREVIOUS RESULT	CURRENT RESULT	PREVIOUS RESULT	REFERENCE
Aflatoxin B1 (AFB1)	15.48				≤6.93 ng/g
Aflatoxin B2 (AFB2)	23.55				≤8.13 ng/g
Aflatoxin G1	21.93				≤6.53 ng/g
Aflatoxin G2	10.85				≤10.8 ng/g
Chaetoglobosin A (CHA)	81.47				≤31.87 ng/g
Diacetoxyscirpenol (DAS)	10.2				≤4.27 ng/g
Fumonisin B1	19.7				≤6.13 ng/g
Fumonisin B2	8.97				≤7.2 ng/g
Fumonisin B3	13.18				≤10.8 ng/g
Nivalenol (NIV)	7.28				≤3.2 ng/g
Ochratoxin A (OTA)	11.34				≤6.8 ng/g
Lead*	1.59				≤1.16 ug/g
4-Nonylphenol	8.19				≤2.06 ug/g



Biogenetix

High (>95th percentile)		Environmental Toxins			
TEST NAME	CURRENT RESULT	PREVIOUS RESULT	CURRENT RESULT	PREVIOUS RESULT	REFERENCE
 Atrazine mercapturate*	0.15		0 0.02 0.05		≤0.05 ug/g
 Bisphenol A (BPA)*	18.69		0 2.12 5.09		≤5.09 ug/g
 Butylparaben*	4.77		0 0.25 4.39		≤4.39 ug/g
 Diethyldithiophosphate (DEDTP)*	0.93		0 0.17 0.3		≤0.3 ug/g
 Aflatoxin M1	3.91		0 3.6 6.4		≤6.4 ng/g
 Dihydrocitronone	14.49		0 9.3 16.5		≤16.53 ng/g
 Gliotoxin	173.07		0 116 207		≤207.87 ng/g
 Aluminum	26.74		0 17.8 45.1		≤45.15 ug/g
 Barium*	2.45		0 2.33 5.59		≤5.59 ug/g
 Nickel	6.42		0 6.37 12.1		≤12.13 ug/g
 Tin*	3.32		0 1 3.72		≤3.72 ug/g
 2,2-bis(4-Chlorophenyl) acetic acid (DDA)	10.14		0 7.9 19		≤19 ug/g
 Dimethyl phosphate (DMP)*	10.07		0 9.1 33.6		≤33.6 ug/g
 Dimethylthiophosphate (DMTP)*	29.44		0 5.91 33.7		≤33.7 ug/g
 Propylparaben*	64.7		0 36.7 222		≤222 ug/g
 Tiglylglycine (TG)	0.2		0 0.09 3.24		≤3.24 ug/g
 Triclosan (TCS)*	36.26		0 29.9 358		≤358 ug/g

18 yo F  
 5'7" 130

Anxiety  
 Bloating  
 Gut Pain  
 Constipation  
 Brain Fog  
 Depression  
 Fatigue  
 Headaches  
 Recurrent Strep






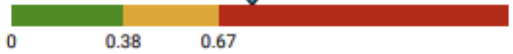



















No meds.

Test	Current Result and Flag	Previous Result and Date	Units	Reference Interval
Lipids <sup>01</sup>				
▲ <b>Cholesterol, Total</b> <sup>01</sup>	<b>176 High</b>		mg/dL	100-169
Triglycerides <sup>01</sup>	49		mg/dL	0-89
HDL Cholesterol <sup>01</sup>	80		mg/dL	>39
VLDL Cholesterol Cal	10		mg/dL	5-40
LDL Chol Calc (NIH)	86		mg/dL	0-109
T. Chol/HDL Ratio	2.2		ratio	0.0-4.4
BUN/Creatinine Ratio	13	16 09/11/2023		10-22
Sodium <sup>01</sup>	141	141 09/11/2023	mmol/L	134-144
Potassium <sup>01</sup>	4.3	3.8 09/11/2023	mmol/L	3.5-5.2
Chloride <sup>01</sup>	100	102 09/11/2023	mmol/L	96-106
Carbon Dioxide, Total <sup>01</sup>	26	25 09/11/2023	mmol/L	20-29
Calcium <sup>01</sup>	10.3	9.5 09/11/2023	mg/dL	8.9-10.4
Protein, Total <sup>01</sup>	7.6	6.9 09/11/2023	g/dL	6.0-8.5
Albumin <sup>01</sup>	5.0	4.3 09/11/2023	g/dL	4.0-5.0
Globulin, Total	2.6	2.6 09/11/2023	g/dL	1.5-4.5
Bilirubin, Total <sup>01</sup>	0.5	0.2 09/11/2023	mg/dL	0.0-1.2
Alkaline Phosphatase <sup>01</sup>	90	78* 09/11/2023	IU/L	47-113
AST (SGOT) <sup>01</sup>	18	22 09/11/2023	IU/L	0-40
ALT (SGPT) <sup>01</sup>	10	19 09/11/2023	IU/L	0-24
Test	Current Result and Flag	Previous Result and Date	Units	Reference Interval
Iron Bind.Cap.(TIBC)	424	380 09/11/2023	ug/dL	250-450
UIBC <sup>01</sup>	375	342 09/11/2023	ug/dL	131-425
Iron <sup>01</sup>	49	38 09/11/2023	ug/dL	26-169
▼ <b>Iron Saturation</b>	<b>12 Low</b>	<b>10</b> 09/11/2023	%	15-55
Ferritin <sup>01</sup>	20	22 09/11/2023	ng/mL	15-77
Hemoglobin A1c <sup>01</sup>	4.8		%	4.8-5.6
Please Note: <sup>01</sup>				
Prediabetes: 5.7 - 6.4				
Diabetes: >6.4				
Glycemic control for adults with diabetes: <7.0				
Estim. Avg Glu (eAG)	91		mg/dL	



### High (>95th percentile)

 Mycotoxins  Environmental Toxins

TEST NAME	CURRENT RESULT	PREVIOUS RESULT	CURRENT RESULT	PREVIOUS RESULT	REFERENCE
 Aflatoxin B1 (AFB1)	12.97				≤6.93 ng/g
 Deoxynivalenol(DON)	103.35				≤67.47 ng/g
 Zearalenone (ZEN)	0.74				≤0.67 ng/g
 Bisphenol A (BPA)*	12.5				≤5.09 ug/g
 Fumonisin B1	3.59				≤6.13 ng/g
 Fumonisin B3	7.24				≤10.8 ng/g
 Patulin	9.15				≤11.6 ng/g
 Cesium*	6.46				≤10.3 ug/g
 Butylparaben*	0.59				≤4.39 ug/g
 Dimethyl phosphate (DMP)*	15.94				≤33.6 ug/g
 Phenyl glyoxylic Acid (PGO)*	307.35				≤518 ug/g
 Tiglylglycine (TG)	0.18				≤3.24 ug/g
 Triclosan (TCS)*	99.7				≤358 ug/g

