

<b>Final Report Date:</b>	07-22-2024 18:37	<b>Specimen Collected:</b>	07-09-2024 09:05
<b>Accession ID:</b>	2406286365	<b>Specimen Received:</b>	07-10-2024 14:08

LAST NAME	FIRST NAME	GENDER	DATE OF BIRTH	ACCESSION ID	DATE OF SERVICE
Hancock	Tenisha	FEMALE	1978-04-21	2406286365	07-09-2024 09:05

## PATIENT

Name: Tenisha Hancock  
Date of Birth: 1978-04-21  
Gender: Female  
Age: 46Weight: lbs

Telephone #: 2039536199  
Street Address: 419 EAST PONCE DE LEON AVENUE  
City: DECATUR  
State: GA Zip #: 30030  
Email: tenisha421@mac.com

Fasting: UNKNOWN  
EMR #: 2406286365

## PROVIDER

Practice Name: Jaclyn D  
**Provider Name: JACLYN DOWNS, OTHER (28892)**  
Street Address: 1616 OAK LANE  
City: LANCASTER  
State: PA  
Zip #: 17601  
Telephone #: 7175759616  
Fax #:  
Phlebotomist: 608

**Vibrant Wellness** is pleased to present to you, '**Organic acids**', to help you make healthy lifestyle, dietary and treatment choices in consultation with your healthcare provider. It is intended to be used as a tool to encourage a general state of health and well-being.

**The Vibrant Organic acids** is a test to identify and quantify the level of a large set of organic acids from urine. This panel is designed to provide a comprehensive assessment of metabolism products including evaluation of intestinal microbial overgrowth, detoxification, mitochondrial markers, neurotransmitter metabolism, glutathione status, fatty acid metabolism, inborn errors of metabolism.

**Interpretation of Report:** The report begins with the summary page which lists only the organic acids whose levels are high in the reference range. Following this section is the complete list of the organic acids which are represented normalized to urinary creatinine, in a tabular form to enable a full overview along with the reference ranges. The level of the organic acid has a green or red highlight around the cell indicating Mild or High risk relative to the corresponding organic acid.. Additionally, the previous value is also indicated to help check for improvements every time the test is ordered.

The Vibrant Wellness platform provides tools for you to track and analyze your general wellness profile. Testing for the Organic acids panel is performed by Vibrant America, a CLIA certified lab CLIA#:05D2078809. Vibrant Wellness provides and makes available this report and any related services pursuant to the Terms of Use Agreement (the "Terms") on its website atwww.vibrant-wellness.com. By accessing, browsing, or otherwise using the report or website or any services, you acknowledge that you have read, understood, and agree to be bound by these terms. If you do not agree to accept these terms, you shall not access, browse, or use the report or website. The statements in this report have not been evaluated by the Food and Drug Administration and are only meant to be lifestyle choices for potential risk mitigation. Please consult your physician/dietitian for medication, treatment, or lifestyle management. This product is not intended to diagnose, treat, or cure any disease.

**Please Note** - It is important that you discuss any modifications to your diet, exercise and nutritional supplementation with your physician before making any changes.

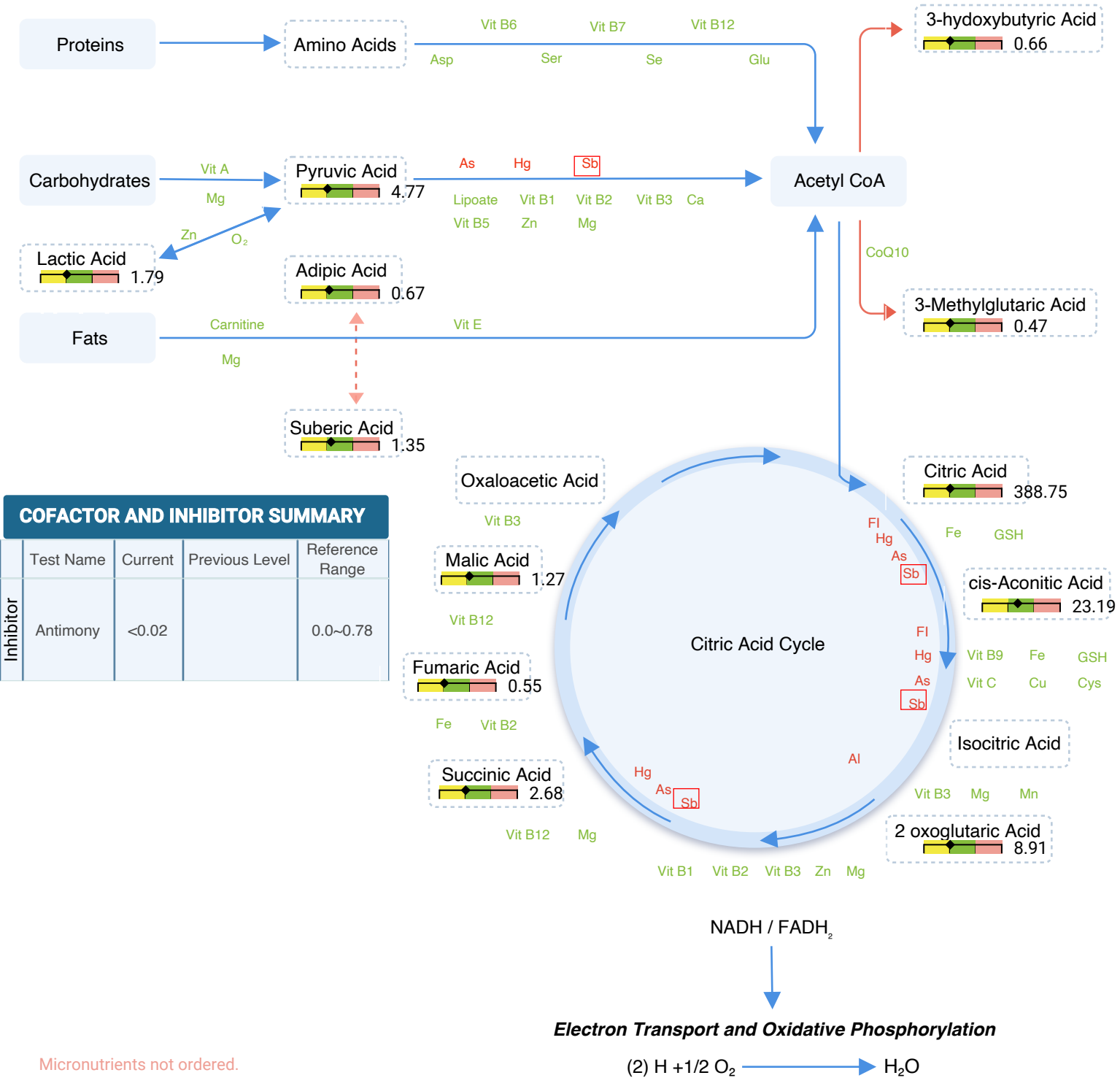
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## Organic Acids Summary

### Organic Acids - Abnormal

Test Name	In Control	High	Current Level	Previous Level
2-Hydroxybutyric acid (mmol/mol)	0.06~1.58	≤0.05 ≥1.59	0.02	
2-Oxoisocaproic acid (mmol/mol)	≤0.41	≥0.42	1.54	
Phenylpyruvic acid (mmol/mol)	0.23~2.20	≤0.22 ≥2.21	6.59	
Phosphoric acid (mmol/mol)	1000~5000	≤999 ≥5001	124	
HVA/VMA Ratio	0.74~1.88	≤0.73 ≥1.89	2.93	

Krebs Cycle At-A-Glance



Micronutrients not ordered.

ABBREVIATION KEY

Al	Aluminum	FAD	Flavin adenine dinucleotide	Mg	Magnesium
As	Arsenic	FADH2	Flavin adenine dinucleotide	Mn	Manganese
Asp	Asparagine	FI	Fluoride	NADH	Nicotinamide adenine dinucleotide
CoQ10	Co Enzyme 10	Fe	Iron	Sb	Antimony
Cu	Copper	GSH	Glutathione	Vit B1	Vitamin B1
Cys	Cysteine	Hg	Mercury	Zn	Zinc

COLOR KEY

- Inhibitor
- Cofactor

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## Organic Acids Complete List

### Carbohydrate Metabolism

Test Name (mmol/mol)	In Control	High	Current Level	Previous Level
Lactic acid	≤50.40	≥50.41	1.79	
Pyruvic acid	≤9.40	≥9.41	4.77	
3-Hydroxybutyric acid	≤3.50	≥3.51	0.66	

### Fat Metabolism

Test Name (mmol/mol)	In Control	High	Current Level	Previous Level
Acetoacetic acid	≤9.60	≥9.61	8.66	
4-Hydroxybutyric acid	≤4.57	≥4.58	2.49	
Adipic acid	0.04~3.90	≤0.03 ≥3.91	0.67	
Suberic acid	0.16~2.18	≤0.15 ≥2.19	1.35	
Sebacic acid	≤0.23	≥0.24	0.05	
Ethylmalonic acid	0.47~2.74	≤0.46 ≥2.75	0.90	
Methylsuccinic acid	0.13~2.14	≤0.12 ≥2.15	0.26	

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### Energy Metabolism

Test Name (mmol/mol)	In Control	High	Current Level	Previous Level
Succinic acid	≤9.40	≥9.41	2.68	
Fumaric acid	≤0.91	≥0.92	0.55	
Malic acid	0.08~1.74	≤0.07 ≥1.75	1.27	
2-Oxoglutaric acid	≤34.77	≥34.78	8.91	
Aconitic acid	6.10~27.90	≤6.09 ≥27.91	23.19	
Citric acid	≤498.80	≥498.81	388.75	

### Mitochondrial Markers - Amino Acid Metabolites

Test Name (mmol/mol)	In Control	High	Current Level	Previous Level
3-Methylglutaric acid	≤0.75	≥0.76	0.47	
3-Methylglutaconic	≤6.20	≥6.21	5.54	
3-Hydroxyglutaric acid	≤4.90	≥4.91	4.70	

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## Nutritional Markers

Test Name (mmol/mol)	In Control	High	Current Level	Previous Level
Methylmalonic acid (Vitamin B12)	≤2.21	≥2.22	0.67	
Pyridoxic acid (Vitamin B6)	≤34.00	≥34.01	20.01	
Pantothenic acid (Vitamin B5)	≤9.91	≥9.92	9.78	
Glutaric acid (Vitamin B2)	0.03~0.38	≤0.02 ≥0.39	0.07	
Ascorbic acid (Vitamin C)	12.20~179.25	≤12.19 ≥179.26	69.58	
3-Hydroxy-3-methylglutaric	0.14~38.95	≤0.13 ≥38.96	36.96	
N-Acetylcysteine acid	≤0.26	≥0.27	0.07	
Methylcitric acid (Vitamin H)	0.15~2.96	≤0.14 ≥2.97	1.07	
Uracil	≤9.40	≥9.41	7.54	
Thymine	≤0.63	≥0.64	0.29	

## Glutathione

Test Name (mmol/mol)	In Control	High	Current Level	Previous Level
Pyroglutamic acid	10.14~32.45	≤10.13 ≥32.46	22.59	
2-Hydroxybutyric acid	0.06~1.58	≤0.05 ≥1.59	0.02	

### Comments

#### 2-Hydroxybutyric acid

2-Hydroxybutyric acid has been shown to be closely related to both insulin resistance and impaired glucose regulation that appears to arise due to increased lipid oxidation and oxidative stress. Urinary 2-Hydroxybutyric acid is found in patients suffering from lactic acidosis and ketoacidosis. Elevated levels of 2-Hydroxybutyric acid may be caused by deficient energy metabolism and also in inherited metabolic diseases affecting the central nervous system during neonatal development.

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### Ammonia Excess

Test Name (mmol/mol)	In Control	High	Current Level	Previous Level
Orotic acid	0.08~0.52	≤0.07 ≥0.53	0.14	

### Oxalate Metabolites

Test Name (mmol/mol)	In Control	High	Current Level	Previous Level
Glyceric acid	0.74~7.40	≤0.73 ≥7.41	2.34	
Glycolic acid	12.60~128.70	≤12.59 ≥128.71	35.69	
Oxalic acid	6.17~110.52	≤6.16 ≥110.53	67.37	

### Aspartame, Salicylates, or GI bacteria

Test Name (mmol/mol)	In Control	High	Current Level	Previous Level
2-Hydroxyhippuric acid	≤1.42	≥1.43	1.13	

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## Amino Acid Metabolites

Test Name (mmol/mol)	In Control	High	Current Level	Previous Level
2-Hydroxyisovaleric acid	≤0.40	≥0.41	0.36	
2-Oxoisovaleric	≤2.00	≥2.01	0.60	
3-Methyl-2-oxovaleric acid	≤2.60	≥2.61	2.13	
2-Hydroxyisocaproic acid	≤0.88	≥0.89	0.46	
2-Oxoisocaproic acid	≤0.41	≥0.42	1.54	
2-Oxo-4-methiolbutyric acid	≤0.18	≥0.19	0.11	
Mandelic acid	≤0.24	≥0.25	0.20	
Phenyllactic acid	≤0.21	≥0.22	0.11	
Phenylpyruvic acid	0.23~2.20	≤0.22 ≥2.21	6.59	
Homogentisic acid	≤0.35	≥0.36	0.27	
4-Hydroxyphenyllactic acid	≤0.84	≥0.85	0.68	
N-Acetylaspartic acid	≤3.90	≥3.91	1.83	
Malonic acid	≤9.80	≥9.81	2.64	

### Comments

#### 2-Oxoisocaproic acid

2-Oxoisocaproic Acid is an abnormal metabolite that arises from the incomplete breakdown of branched-chain amino acids. It is a neurotoxin, an acidogen, and a metabotoxin. Chronically high levels of 2-Oxoisocaproic Acid is associated with maple syrup urine disease, which is a metabolic disorder caused by a deficiency of the branched-chain alpha-keto acid dehydrogenase complex, leading to a buildup of the branched-chain amino acids (leucine, isoleucine, and valine) and their toxic by-products (ketoacids).

#### Phenylpyruvic acid

Phenylpyruvic acid is a keto-acid that is an intermediate or catabolic byproduct of phenylalanine metabolism. High levels of phenylpyruvic acid in the urine are often indicative of phenylketonuria, which is due to lack of the enzyme phenylalanine hydroxylase. If untreated, mental retardation effects and microcephaly are evident by the first year along with other symptoms including unusual irritability, epileptic seizures and skin lesions. Phenylpyruvic acid is also a microbial metabolite, it can be produced by *Lactobacillus plantarum*.



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### Mineral Metabolites

Test Name (mmol/mol)	In Control	High	Current Level	Previous Level
Phosphoric acid	1000~5000	≤999 ≥5001	124	

#### Comments

#### Phosphoric acid

Phosphate plays important roles in building teeth and bones together with mineral calcium. It is also indicative of nerve functions and kidney status. Urinary test can provide insights into kidney problems and endocrine disorders. High levels of phosphate can be from processed foods such as sodas, candy, ice cream, chocolate, mayonnaise, frozen pizza, commercially baked goods, and meats. Other severe diseases that may contribute to elevation include hyperparathyroidism, renal tubular damage, and metabolic acidosis. Low levels of phosphate can be due to vitamin D deficiency.

### Urine Creatinine

Test Name (mg/ml)	In Control	High	Current Level	Previous Level
Creatinine	0.25~2.16	≤0.24 ≥2.17	1.31	

### Neurotransmitter Metabolism - Phenylalanine and Tyrosine Metabolites

Test Name (mcg/g)	In Control	High	Current Level	Previous Level
Homovanillic acid (HVA)	3535.00~8455.00	≤3534.99 ≥8455.01	7308.52	
Vanillylmandelic acid (VMA)	2411.20~5047.80	≤2411.19 ≥5047.81	2494.31	
Dihydroxyphenylacetic acid (DOPAC)	577.30~1655.50	≤577.29 ≥1655.51	1244.63	

### Neurotransmitter Metabolism - Tryptophan Metabolites

Test Name (mcg/g)	In Control	High	Current Level	Previous Level
5-Hydroxyindoleacetic acid (5-HIAA)	1711.00~9788.00	≤1710.99 ≥9788.01	4931.85	
Quinolinic acid	610.30~2432.90	≤610.29 ≥2432.91	1852.26	
Kynurenic acid	125.60~991.30	≤125.59 ≥991.31	560.29	

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### Neurotransmitter Metabolism - Ratios

Test Name	In Control	High	Current Level	Previous Level
Quinolinic acid/5-HIAA Ratio	0.32~1.10	≤0.31 ≥1.11	0.38	
HVA/VMA Ratio	0.74~1.88	≤0.73 ≥1.89	2.93	
HVA/DOPAC Ratio	2.60~8.30	≤2.59 ≥8.31	5.87	

#### Comments

#### HVA/VMA Ratio

The urinal HVA/VMA ratio is a useful screening method for Menkes disease, which is a genetic disorder that may lead to copper deficiency. High HVA/VMA ratio indicates decreased conversion of dopamine to norepinephrine by the enzyme, dopamine beta-hydroxylase, which is inhibited by Clostridia by-products (HPHPA, 4-cresol, and 4-hydroxyphenylacetic acid).

### Yeast and Fungal Markers

Test Name (mmol/mol)	In Control	High	Current Level	Previous Level
Citramalic acid	≤3.80	≥3.81	0.64	
5-Hydroxymethyl-furoic acid	≤13.40	≥13.41	10.04	
3-Oxoglutaric acid	≤0.31	≥0.32	0.21	
Furan-2,5-dicarboxylic acid	≤16.70	≥16.71	3.99	
Furancarboxylglycine	≤1.82	≥1.83	0.84	
Tartaric acid	≤4.47	≥4.48	4.43	
Arabinose	≤30.00	≥30.01	15.22	
Carboxycitric acid	≤30.00	≥30.01	28.43	
Tricarballic acid	≤0.50	≥0.51	0.36	

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### Bacterial Markers

Test Name (mmol/mol)	In Control	High	Current Level	Previous Level
Hippuric acid	≤607.00	≥607.01	513.11	
2-Hydroxyphenylacetic acid	0.05~0.69	≤0.04 ≥0.70	0.13	
4-Hydroxybenzoic acid	≤1.30	≥1.31	1.07	
4-Hydroxyhippuric acid	0.74~16.98	≤0.73 ≥16.99	2.09	
DHPPA (dihydroxyphenylpropionic acid)	≤0.44	≥0.45	0.38	

### Clostridia Bacterial Markers

Test Name (mmol/mol)	In Control	High	Current Level	Previous Level
4-Hydroxyphenylacetic acid	≤20.10	≥20.11	6.00	
HPHPA (3-(3-hydroxyphenyl)-3-hydroxypropionic acid)	≤227.00	≥227.01	30.27	
4-Cresol	≤74.88	≥74.89	4.87	
3-Indoleacetic acid (IAA)	≤12.67	≥12.68	4.35	

## Risk and Limitations

This test has been developed and its performance characteristics determined by Vibrant America LLC., a CLIA certified lab. These assays have not been cleared or approved by the U.S. Food and Drug Administration.

Vibrant Organic acids panel does not demonstrate absolute positive and negative predictive values for any condition. Its clinical utility has not been fully established. Clinical history and current symptoms of the individual must be considered by the healthcare provider prior to any interventions. Test results should be used as one component of a physician's clinical assessment.







Organic acids panel testing is performed at Vibrant America, a CLIA certified laboratory and utilizes ISO-13485 developed technology. Vibrant America has effective procedures in place to protect against technical and operational problems. However, such problems may still occur. Examples include failure to obtain the result for a specific organic acid due to circumstances beyond Vibrant's control. Vibrant may re-test a sample in order to obtain these results but upon re-testing the results may still not be obtained. As with all medical laboratory testing, there is a small chance that the laboratory could report incorrect results. A tested individual may wish to pursue further testing to verify any results.

The information in this report is intended for educational purposes only. While every attempt has been made to provide current and accurate information, neither the author nor the publisher can be held accountable for any errors or omissions.

Vibrant Wellness makes no claims as to the diagnostic or therapeutic use of its tests or other informational materials. Vibrant Wellness reports and other information do not constitute the giving of medical advice and are not a substitute for a professional healthcare practitioner. Please consult your provider for questions regarding test results, or before beginning any course of medication, supplementation or dietary/lifestyle changes. Users should not disregard, or delay in obtaining, medical advice for any medical condition they may have, and should seek the assistance of their health care professionals for any such conditions.

# Total Toxins Summary

LAST NAME	FIRST NAME	GENDER	DATE OF BIRTH	ACCESSION ID	DATE OF SERVICE
Hancock	Tenisha	Female	1978-04-21	2406286365	2024-07-09 09:05 (PDT)

Moderate (75th-95th percentile)			 Mycotoxins		 Heavy Metals
TEST NAME	CURRENT RESULT	PREVIOUS RESULT	CURRENT RESULT	PREVIOUS RESULT	REFERENCE
 Nivalenol (NIV)	2.28		<div><div></div><div></div><div></div></div> <div>01.83.2</div>		≤3.2 ng/g
 Arsenic*	16.65		<div><div></div><div></div><div></div></div> <div>011.952</div>		≤52 ug/g
 Cadmium*	0.38		<div><div></div><div></div><div></div></div> <div>00.290.8</div>		≤0.8 ug/g
 Thallium*	0.27		<div><div></div><div></div><div></div></div> <div>00.240.43</div>		≤0.43 ug/g

\* Indicates NHANES population data reference ranges.

Urine Creatinine					
TEST NAME	CURRENT RESULT	PREVIOUS RESULT	CURRENT RESULT	PREVIOUS RESULT	REFERENCE
Urine Creatinine	1.31		<div><div></div><div></div><div></div></div> <div>00.242.16</div>		0.25-2.16 mg/mL

SPECIMEN INFORMATION		
Provoking Status: unavailable	Agent:	Dosage:

Results are creatinine corrected to account for urine dilution variations. Reference intervals are based upon NHANES(cdc.gov/nhanes) data if available, and are representative of a large population cohort under non-provoked conditions. Chelation (provocation) agents can increase urinary excretion of metals/elements.

## PATIENT

NAME: **Hancock Tenisha**  
DATE OF BIRTH: **1978-04-21** GENDER: **Female**  
TELEPHONE: **2039536199** AGE: **46**

ACCESSION ID: **2406286365**  
SPECIMEN COLLECTED: **2024-07-09 09:05 (PDT)**  
SPECIMEN RECEIVED: **2024-07-10 15:08 (PDT)**  
FINAL REPORT DATE: **2024-07-22 18:18 (PDT)**  
GENERATION DATE: **2024-07-22 18:38 (PDT)**

FASTING: **UNKNOWN**

## PROVIDER:

PRACTICE NAME: **JACLYN DOWNS\_NPI**  
PROVIDER NAME: **JACLYN DOWNS,  
OTHER(28892)**  
PHLEBOTOMIST: **608**

TELEPHONE: **7175759616**  
FAX #:   
ADDRESS: **1616 OAK LANE, LANCASTER, PA 17601**

Vibrant Wellness is pleased to present to you, 'Mycotoxins panel', to help you make healthy lifestyle, dietary and treatment choices in consultation with your healthcare provider. It is intended to be used as a tool to encourage a general state of health and well-being.

The Vibrant Mycotoxins Panel is a test to identify and quantify the level of a large set of mycotoxins from both food and environmental molds present in your urine. The results are provided in 3 tables subgrouping the mycotoxins into Aflatoxins, Trichothecenes and Other Mycotoxins.


The report begins with the summary page which lists only the mycotoxins whose levels are >95th percentile (Red) and 75th-95th percentile (Yellow) of reference range, normalized to Urine creatinine levels. Additionally, the previous value is also indicated for your referral (if available). Following this section is the complete list of the mycotoxins and their absolute levels normalized to Creatinine in a quantile format along with the reference ranges. These levels are shown with three shades of color – Green, Yellow and Red. Reference ranges were determined using urine samples from 1000 apparently healthy individuals. The result in green corresponds to 0 to 75th percentile, the result in yellow corresponds to 75th to 95th percentile and the result in red corresponds to greater than 95th percentile of reference range. All content provided in the report are purely for informational purposes only and should not be considered medical advice. Any changes based on the information should made in consultation with your healthcare provider.

The Vibrant Wellness platform provides tools for you to track and analyze your general wellness profile. Testing for the Mycotoxins panel is performed by Vibrant America, a CLIA certified lab CLIA#:05D2078809. Vibrant Wellness provides and makes available this report and any related services pursuant to the Terms of Use Agreement (the "Terms") on its website at [www.vibrant-wellness.com](http://www.vibrant-wellness.com). By accessing, browsing, or otherwise using the report or website or any services, you acknowledge that you have read, understood, and agree to be bound by these terms. If you do not agree to accept these terms, you shall not access, browse, or use the report or website. The statements in this report have not been evaluated by the Food and Drug Administration and are only meant to be lifestyle choices for potential risk mitigation. Please consult your physician/dietitian for medication, treatment, or lifestyle management. This product is not intended to diagnose, treat, or cure any disease.


Pediatric ranges have not been established for this test. It is important that you discuss any modifications to your diet, exercise, and nutritional supplementation with your physician before making any changes.

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Hancock	Tenisha	Female	1978-04-21	2406286365	2024-07-09 09:05 (PDT)

Moderate (75th-95th percentile)

TEST NAME	CURRENT RESULT	PREVIOUS RESULT	CURRENT RESULT	PREVIOUS RESULT	REFERENCE
Nivalenol (NIV)	2.28				≤3.2 ng/g

Urine Creatinine

TEST NAME	CURRENT RESULT	PREVIOUS RESULT	CURRENT RESULT	PREVIOUS RESULT	REFERENCE
Urine Creatinine	1.31				0.25-2.16 mg/mL

Results are creatinine corrected to account for urine dilution variations.

LAST NAME	FIRST NAME	GENDER	DATE OF BIRTH	ACCESSION ID	DATE OF SERVICE
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Aflatoxin									
TEST NAME	PERCENTILE		REFERENCE						
	75th	95th							
Aflatoxin B1 (AFB1)	<div><div></div></div> 1.6		≤6.93 ng/g						
Aflatoxin G1	<div><div></div></div> 0.35		≤6.53 ng/g						
Aflatoxin M1	<div><div></div></div> 1.16		≤6.4 ng/g						
Aflatoxin B2 (AFB2)	<div><div></div></div> 0.78		≤8.13 ng/g						
Aflatoxin G2	<div><div></div></div> 1.63		≤10.8 ng/g						


Other									
TEST NAME	PERCENTILE		REFERENCE						
	75th	95th							
Chaetoglobosin A (CHA)	<div><div></div></div> 2.92		≤31.87 ng/g						
Dihydrocitrinone	<div><div></div></div> 4.27		≤16.53 ng/g						
Fumonisin B1	<div><div></div></div> 2.26		≤6.13 ng/g						
Fumonisin B3	<div><div></div></div> 5.84		≤10.8 ng/g						
Mycophenolic Acid	<0.05		≤6.4 ng/g						
Patulin	<div><div></div></div> 1.13		≤11.6 ng/g						
Zearalenone (ZEN)	<div><div></div></div> 0.38		≤0.67 ng/g						
Citrinin (CTN)	<div><div></div></div> 6.97		≤12.53 ng/g						
Enniatin B1 (ENN B1)	<div><div></div></div> 0.09		≤0.22 ng/g						
Fumonisin B2	<div><div></div></div> 2.1		≤7.2 ng/g						
Gliotoxin	<div><div></div></div> 87.86		≤207.87 ng/g						
Ochratoxin A (OTA)	<div><div></div></div> 2.37		≤6.8 ng/g						
Sterigmatocystin (STC)	<div><div></div></div> 0.09		≤0.53 ng/g						

Trichothecenes									
TEST NAME	PERCENTILE		REFERENCE						
	75th	95th							
Deoxynivalenol (DON)	<div><div></div></div> 9.54		≤67.47 ng/g						
Nivalenol (NIV)	<div><div></div></div> 2.28		≤3.2 ng/g						
Roridin E	<0.05		≤1.33 ng/g						
Satratoxin G	<div><div></div></div> <0.05		≤0.18 ng/g						
T-2 Toxin	<div><div></div></div> <0.05		≤0.18 ng/g						
Verrucarin J	<0.05		≤9.2 ng/g						
Diacetoxyscirpenol (DAS)	<div><div></div></div> 0.17		≤4.27 ng/g						
Roridin A	<div><div></div></div> 4.16		≤7.6 ng/g						
Roridin L2	<div><div></div></div> 0.95		≤6.8 ng/g						
Satratoxin H	<div><div></div></div> 0.05		≤0.18 ng/g						
Verrucarin A	<div><div></div></div> 0.17		≤1.33 ng/g						



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Trichothecenes

 COMMENTS

**Nivalenol (NIV)**

Nivalenol (NIV) is a Type B trichothecene mycotoxin produced by several *Fusarium* spp. It is commonly found in crops such as wheat, barley and corn and persists in foods despite food processing. Structurally, NIV is similar to DON, and often found alongside DON in foods, however, the oxidative stress and toxicity of NIV is greater than that of DON.<sup>22</sup> Nivalenol is thought to signal a series of cellular processes that result in inflammation and apoptosis in fast growing cells with resultant immunosuppression, gastrointestinal toxicity and genotoxicity. There are associations in the literature with esophageal and gastric carcinomas, as well as Kashin-Beck disease.<sup>23</sup>



## Risk and Limitations

This test has been developed and its performance characteristics determined by Vibrant America LLC., a CLIA certified lab. These assays have not been cleared or approved by the U.S. Food and Drug Administration.

Mycotoxins do not demonstrate absolute positive and negative predictive values for mold related illnesses. Its clinical utility has not been fully established. Clinical history and current symptoms of the individual must be considered by the healthcare provider prior to any interventions. Test results should be used as one component of a physician's clinical assessment. Quantification of mycotoxins in urine is not FDA-recognized diagnostic indicator of mold exposure.

Mycotoxins testing is performed at Vibrant America, a CLIA certified laboratory. Vibrant America has effective procedures in place to protect against technical and operational problems. However, such problems may still occur. Examples include failure to obtain the result for a specific mycotoxin due to circumstances beyond Vibrant's control. Vibrant may re-test a sample to obtain these results but upon re-testing the results may still not be obtained. As with all medical laboratory testing, there is a small chance that the laboratory could report incorrect results. A tested individual may wish to pursue further testing to verify any results.

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## PATIENT

NAME: **Hancock Tenisha**  
DATE OF BIRTH: **1978-04-21** GENDER: **Female**  
TELEPHONE: **2039536199** AGE: **46**

ACCESSION ID: **2406286365**  
SPECIMEN COLLECTED: **2024-07-09 09:05 (PDT)**  
SPECIMEN RECEIVED: **2024-07-10 15:08 (PDT)**  
FINAL REPORT DATE: **2024-07-20 07:08 (PDT)**  
GENERATION DATE: **2024-07-22 18:38 (PDT)**

FASTING: **UNKNOWN**

## PROVIDER:

PRACTICE NAME: **JACLYN DOWNS\_NPI**  
PROVIDER NAME: **JACLYN DOWNS,  
OTHER(28892)**  
PHLEBOTOMIST: **608**

TELEPHONE: **7175759616**  
FAX #:   
ADDRESS: **1616 OAK LANE, LANCASTER, PA 17601**

Vibrant Wellness is pleased to present to you, 'Heavy Metals panel', to help you make healthy lifestyle, dietary and treatment choices in consultation with your healthcare provider. It is intended to be used as a tool to encourage a general state of health and well-being.

The Heavy Metals is a test to measure levels of Heavy Metals Toxins in your urine that you might be exposed to.

Reference ranges are established based on NHANES study where applicable. Other reference ranges are established based on 1000 apparently healthy urine samples.



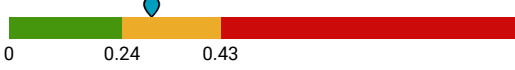
The report begins with the summary page which lists only the heavy metal toxins whose levels are >95th percentile (Red) and 75th-95th percentile (Yellow) of reference range, normalized to Urine creatinine levels. Additionally, the previous value is also indicated for your referral (if available). Following this section is the complete list of the heavy metal toxins and their absolute levels normalized to Creatinine in a quantile format along with the reference ranges. These levels are shown with three shades of color – Green, Yellow and Red. The result in green corresponds to 0 to 75th percentile, the result in yellow corresponds to 75th to 95th percentile and the result in red corresponds to greater than 95th percentile of reference range. All content provided in the report are purely for informational purposes only and should not be considered medical advice. Any changes based on the information should be made in consultation with your healthcare provider.

The Vibrant Wellness platform provides tools for you to track and analyze your general wellness profile. Testing for the Heavy Metals panel is performed by Vibrant America, a CLIA certified lab CLIA#:05D2078809. Vibrant Wellness provides and makes available this report and any related services pursuant to the Terms of Use Agreement (the "Terms") on its website at [www.vibrant-wellness.com](http://www.vibrant-wellness.com). By accessing, browsing, or otherwise using the report or website or any services, you acknowledge that you have read, understood, and agree to be bound by these terms. If you do not agree to accept these terms, you shall not access, browse, or use the report or website. The statements in this report have not been evaluated by the Food and Drug Administration and are only meant to be lifestyle choices for potential risk mitigation. Please consult your physician/dietitian for medication, treatment, or lifestyle management. This product is not intended to diagnose, treat, or cure any disease.


Pediatric ranges have not been established for this test. It is important that you discuss any modifications to your diet, exercise, and nutritional supplementation with your physician before making any changes.

# Heavy Metals Summary

LAST NAME	FIRST NAME	GENDER	DATE OF BIRTH	ACCESSION ID	DATE OF SERVICE
Hancock	Tenisha	Female	1978-04-21	2406286365	2024-07-09 09:05 (PDT)

Moderate (75th-95th percentile)					
TEST NAME	CURRENT RESULT	PREVIOUS RESULT	CURRENT RESULT	PREVIOUS RESULT	REFERENCE
Arsenic*	16.65				≤52 ug/g
Cadmium*	0.38				≤0.8 ug/g
Thallium*	0.27				≤0.43 ug/g

\* Indicates NHANES population data reference ranges.

Urine Creatinine					
TEST NAME	CURRENT RESULT	PREVIOUS RESULT	CURRENT RESULT	PREVIOUS RESULT	REFERENCE
Urine Creatinine	1.31				0.25-2.16 mg/mL

SPECIMEN INFORMATION		
Provoking Status: unavailable	Agent:	Dosage:

Results are creatinine corrected to account for urine dilution variations. Reference intervals are based upon NHANES(cdc.gov/nhanes) data if available, and are representative of a large population cohort under non-provoked conditions. Chelation (provocation) agents can increase urinary excretion of metals/elements.

LAST NAME	FIRST NAME	GENDER	DATE OF BIRTH	ACCESSION ID	DATE OF SERVICE
Hancock	Tenisha	Female	1978-04-21	2406286365	2024-07-09 09:05 (PDT)

## Heavy Metals

\* Indicates NHANES population data reference ranges.

TEST NAME				TEST NAME			
		PERCENTILE		REFERENCE			REFERENCE
		75th	95th		75th	95th	
Aluminum	<div><div></div></div> 3.64			≤45.15 ug/g	Antimony*	<div><div></div></div> 0.02	≤0.16 ug/g
Arsenic*	<div><div></div></div> 16.65			≤52 ug/g	Barium*	<div><div></div></div> <1	≤5.59 ug/g
Beryllium*	<div><div></div></div> <0.1			≤0.76 ug/g	Bismuth	<div><div></div></div> <0.1	≤2.53 ug/g
Cadmium*	<div><div></div></div> 0.38			≤0.8 ug/g	Cesium*	<div><div></div></div> 3.92	≤10.3 ug/g
Gadolinium	<div><div></div></div> 0.05			≤0.45 ug/g	Lead*	<div><div></div></div> 0.21	≤1.16 ug/g
Mercury*	<div><div></div></div> 0.37			≤1.61 ug/g	Nickel	<div><div></div></div> 3.04	≤12.13 ug/g
Palladium	<div><div></div></div> <0.1			≤0.2 ug/g	Platinum*	<div><div></div></div> <0.05	≤0.9 ug/g
Tellurium	<div><div></div></div> 0.27			≤0.89 ug/g	Thallium*	<div><div></div></div> 0.27	≤0.43 ug/g
Thorium	<div><div></div></div> <0.01			≤0.07 ug/g	Tin*	<div><div></div></div> <0.2	≤3.72 ug/g
Tungsten*	<div><div></div></div> <0.04			≤0.33 ug/g	Uranium*	<div><div></div></div> 0.01	≤0.04 ug/g

COMMENTS

### Arsenic


Arsenic (atomic number 33) is a naturally occurring element distributed throughout the earth's crust and in groundwater. At lower levels, it is also found in the air and in food products. Ingestion and inhalation are the most common routes of exposure to arsenic. However, dermal exposure may lead to illness. Arsenic-contaminated water—used for drinking, food preparation, and irrigation of food crops—poses the greatest threat to public health. According to the American Cancer Society, the foods with the highest levels of arsenic are seafood, rice (including rice cereal), mushrooms, and poultry. Because tobacco plants can take up arsenic naturally present in the soil, people who smoke may have higher levels. The mechanisms of arsenic toxicity include inactivating enzymes involved in cellular energy pathways, DNA synthesis, and DNA repair. Acute exposure to arsenic can lead to gastroenteritis followed by hypotension. Chronic exposure can lead to the risk of developing skin lesions, cardiovascular diseases, diabetes, affected cognitive abilities, and cancer.

### Cadmium

Cadmium (atomic number 48) is a natural element found in tiny amounts in air, water, soil, and food. It is used in batteries, alloys for electroplating (auto industries), the production of pigments, and as stabilizers for polyvinyl plastic. Exposure to cadmium occurs primarily occurs via ingestion of foods grown in contaminated soil or by the inhalation of cigarette smoke. According to the Agency for Toxic Substances and Disease Registry, dermal absorption of cadmium is negligible. Cadmium toxicity generates reactive oxygen species, interferes with DNA repair, and binds the mitochondria affecting cell proliferation, differentiation, and apoptosis. Symptoms of cadmium toxicity include anemia, liver disease, vomiting, diarrhea, kidney disease, and impaired bone density. Long-term exposure to cadmium may lead to cancer and organ system toxicity such as skeletal, urinary, reproductive, cardiovascular, central and peripheral nervous, and respiratory systems.

LAST NAME	FIRST NAME	GENDER	DATE OF BIRTH	ACCESSION ID	DATE OF SERVICE
Hancock	Tenisha	Female	1978-04-21	2406286365	2024-07-09 09:05 (PDT)

## Heavy Metals

 COMMENTS

### Thallium

Thallium (atomic number 81) is a soft, bluish-white metal naturally occurring in the earth's crust. It is most commonly used in the semiconductor industry and, in rare cases, glass manufacturing. Thallium exposure can come from food, water, and air. Produce grown in contaminated soil and contaminated groundwater are the most common routes of thallium exposure in humans. According to uptake studies, Brassicaceous plants have the highest levels. Thallium is present in cigarette smoke, and smokers have approximately twice as much thallium in their bodies as those who do not smoke. The initial symptoms of thallium poisoning may include fever, gastrointestinal problems, delirium, convulsions, and coma. Acute toxicity may subside to be replaced by a gradual development of mild gastrointestinal disturbances, polyneuritis, encephalopathy, tachycardia, skin eruptions, stomatitis, atrophic changes of the skin, nail changes (Mee's lines), and skin hyperesthesia (mainly in the soles of the feet and the tibia). Additionally, degenerative changes in the heart, liver, and kidney, subarachnoid hemorrhage, bone marrow depression, psychotic behavior with hallucinations, and dementia may also occur. Thallium can disrupt protein bonds and may even cause DNA damage. These aspects are considered to be the hallmarks of aging which result in reduced longevity. Thus, thallium intoxication may accelerate aging owing to its contribution to genomic and proteomic instability.



## Risk and Limitations

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Heavy Metals Toxins panel does not demonstrate absolute positive and negative predictive values for any condition. Its clinical utility has not been fully established. Clinical history and current symptoms of the individual must be considered by the healthcare provider prior to any interventions. Test results should be used as one component of a physician's clinical assessment.

Heavy Metals Panel testing is performed at Vibrant America, a CLIA certified laboratory. Vibrant America has effective procedures in place to protect against technical and operational problems. However, such problems may still occur. Examples include failure to obtain the result for a specific toxin due to circumstances beyond Vibrant's control. Vibrant may re-test a sample to obtain these results but upon re-testing the results may still not be obtained. As with all medical laboratory testing, there is a small chance that the laboratory could report incorrect results. A tested individual may wish to pursue further testing to verify any results.

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# Environmental Toxins



**VibrantWellness**

Vibrant Wellness | 3521 Leonard Ct, Santa Clara, CA 95054  
1(866) 364-0963 | support@vibrant-america.com | www.vibrant-wellness.com

## PATIENT

NAME: **Hancock Tenisha**  
DATE OF BIRTH: **1978-04-21** GENDER: **Female**  
TELEPHONE: **2039536199** AGE: **46**

ACCESSION ID: **2406286365**  
SPECIMEN COLLECTED: **2024-07-09 09:05 (PDT)**  
SPECIMEN RECEIVED: **2024-07-10 15:08 (PDT)**  
FINAL REPORT DATE: **2024-07-15 17:41 (PDT)**  
GENERATION DATE: **2024-07-22 18:38 (PDT)**

FASTING: **UNKNOWN**

## PROVIDER:

PRACTICE NAME: **JACLYN DOWNS\_NPI**  
PROVIDER NAME: **JACLYN DOWNS,**  
**OTHER(28892)**  
PHLEBOTOMIST: **608**

TELEPHONE: **7175759616**  
FAX #:   
ADDRESS: **1616 OAK LANE, LANCASTER, PA 17601**

Vibrant Wellness is pleased to present to you, 'Environmental Toxins Panel', to help you make healthy lifestyle, dietary and treatment choices in consultation with your healthcare provider. It is intended to be used as a tool to encourage a general state of health and well-being.

The Vibrant Environmental Toxins Panel is a test to measure levels of Environmental Toxins in your urine. The panel is sub-grouped into Pesticides, Pthalates, Parabens, Acrylic, Alkyl phenols and Volatile Organic Compounds.

Reference ranges are established based on NHANES study where applicable. Other reference ranges are established based on 1000 apparently healthy urine samples.

The report begins with the summary page which lists only the environmental toxins whose levels are >95th percentile (Red) and 75th-95th percentile (Yellow) of reference range, normalized to Urine creatinine levels. Additionally, the previous value is also indicated for your referral (if available). Following this section is the complete list of the environmental toxins and their absolute levels normalized to Creatinine in a quantile format along with the reference ranges. These levels are shown with three shades of color – Green, Yellow and Red. The result in green corresponds to 0 to 75th percentile, the result in yellow corresponds to 75th to 95th percentile and the result in red corresponds to greater than 95th percentile of reference range. All content provided in the report are purely for informational purposes only and should not be considered medical advice. Any changes based on the information should made in consultation with your healthcare provider.

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Pediatric ranges have not been established for this test. It is important that you discuss any modifications to your diet, exercise, and nutritional supplementation with your physician before making any changes.



# Environmental Toxins Summary

LAST NAME	FIRST NAME	GENDER	DATE OF BIRTH	ACCESSION ID	DATE OF SERVICE
Hancock	Tenisha	Female	1978-04-21	2406286365	2024-07-09 09:05 (PDT)

### Urine Creatinine

TEST NAME	CURRENT RESULT	PREVIOUS RESULT	CURRENT RESULT	PREVIOUS RESULT	REFERENCE
Urine Creatinine	1.31		<div><div></div></div>		0.25-2.16 mg/mL

Results are creatinine corrected to account for urine dilution variations. Reference intervals are based upon NHANES(cdc.gov/nhanes) data if available, and are representative of a large population cohort under non-provoked conditions.

# Environmental Toxins

LAST NAME	FIRST NAME	GENDER	DATE OF BIRTH	ACCESSION ID	DATE OF SERVICE
Hancock	Tenisha	Female	1978-04-21	2406286365	2024-07-09 09:05 (PDT)

Environmental phenols * Indicates NHANES population data reference ranges.							
TEST NAME	PERCENTILE		REFERENCE	TEST NAME	PERCENTILE		REFERENCE
	75th	95th			75th	95th	
4-Nonylphenol	<0.01		≤2.06 ug/g	Bisphenol A (BPA)*	0.65		≤5.09 ug/g
Triclosan (TCS)*	3.56		≤358 ug/g				

Herbicides * Indicates NHANES population data reference ranges.							
TEST NAME	PERCENTILE		REFERENCE	TEST NAME	PERCENTILE		REFERENCE
	75th	95th			75th	95th	
2,4-Dichlorophenoxyacetic Acid (2,4-D)*	0.18		≤1.55 ug/g	Atrazine *	<0.01		≤0.05 ug/g
Atrazine mercapturate*	0.01		≤0.05 ug/g	Glyphosate	0.97		≤7.6 ug/g

Mitochondrial Marker							
TEST NAME	PERCENTILE		REFERENCE	TEST NAME	PERCENTILE		REFERENCE
	75th	95th			75th	95th	
Tiglylglycine (TG)	0.03		≤3.24 ug/g				

Other Markers * Indicates NHANES population data reference ranges.							
TEST NAME	PERCENTILE		REFERENCE	TEST NAME	PERCENTILE		REFERENCE
	75th	95th			75th	95th	
Diphenyl Phosphate (DPP)	0.56		≤3.7 ug/g	N-acetyl-S-(2-carbamoylethyl)-cysteine*	5.57		≤199 ug/g
Perchlorate (PERC)*	0.16		≤10.7 ug/g				

Parabens * Indicates NHANES population data reference ranges.							
TEST NAME	PERCENTILE		REFERENCE	TEST NAME	PERCENTILE		REFERENCE
	75th	95th			75th	95th	
Butylparaben*	0.1		≤4.39 ug/g	Ethylparaben *	0.04		≤99.3 ug/g
Methylparaben*	10.77		≤653 ug/g	Propylparaben*	2.69		≤222 ug/g

LAST NAME	FIRST NAME	GENDER	DATE OF BIRTH	ACCESSION ID	DATE OF SERVICE
Hancock	Tenisha	Female	1978-04-21	2406286365	2024-07-09 09:05 (PDT)

Pesticides * Indicates NHANES population data reference ranges.							
TEST NAME	PERCENTILE		REFERENCE	TEST NAME	PERCENTILE		REFERENCE
	75th	95th			75th	95th	
2,2-bis(4-Chlorophenyl) acetic acid (DDA)	5.69		≤19 ug/g	3-Phenoxybenzoic Acid (3PBA)*	0.51		≤5.44 ug/g
Diethyl phosphate (DEP)*	0.94		≤15.7 ug/g	Diethyldithiophosphate (DEDTP)*	0.02		≤0.3 ug/g
Diethylthiophosphate (DETP)*	0.73		≤3.92 ug/g	Dimethyl phosphate (DMP)*	6.18		≤33.6 ug/g
Dimethyldithiophosphate (DMDTP)*	0.25		≤6.12 ug/g	Dimethylthiophosphate (DMTP)*	1.99		≤33.7 ug/g

Phthalates * Indicates NHANES population data reference ranges.							
TEST NAME	PERCENTILE		REFERENCE	TEST NAME	PERCENTILE		REFERENCE
	75th	95th			75th	95th	
Mono-(2-ethyl-5-hydroxyhexyl) phthalate (MEHHP)*	9.88		≤37.7 ug/g	Mono-(2-ethyl-5-oxohexyl) phthalate (MEOHP)*	4.6		≤23.4 ug/g
Mono-2-ethylhexyl phthalate (MEHP)*	0.25		≤8.47 ug/g	Mono-ethyl phthalate (MEtP)*	1.71		≤541 ug/g

Volatile organic compounds * Indicates NHANES population data reference ranges.							
TEST NAME	PERCENTILE		REFERENCE	TEST NAME	PERCENTILE		REFERENCE
	75th	95th			75th	95th	
2-Hydroxyethyl Mercapturic Acid (HEMA)*	0.02		≤4.75 ug/g	2-Hydroxyisobutyric Acid (2HIB)	2.67		≤1215.72 ug/g
2-Methylhippuric Acid (2MHA)*	0.92		≤248 ug/g	3-Methylhippuric Acid (3MHA)	0.34		≤612.83 ug/g
4-Methylhippuric Acid (4MHA)	0.6		≤752.72 ug/g	N-Acetyl (2-Cyanoethyl) Cysteine (NACE)*	0.13		≤256 ug/g
N-Acetyl (2-Hydroxypropyl) Cysteine (NAHP)*	65.68		≤403 ug/g	N-Acetyl (3,4-Dihydroxybutyl) Cysteine*	0.17		≤583 ug/g
N-Acetyl (Propyl) Cysteine (NAPR)*	0.3		≤46.1 ug/g	N-acetyl phenyl cysteine (NAP)*	1.27		≤3.03 ug/g
Phenyl glyoxylic Acid (PGO)*	50.81		≤518 ug/g				



## Risk and Limitations

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