

SELECTION DEMO

Name: SELECTION DEMO
Date of Birth: 01-01-1111
Gender: Male
Age: 01
Height:
Weight:
Fasting: UNKNOWN

Telephone: 000-000-0000
Street Address:
Email:

FINAL REPORT

Accession ID: 2403050025

Provider Information

Practice Name: DEMO CLIENT, MD
Provider Name: DEMO CLIENT, MD
Phlebotomist: 0

Telephone: 000-000-0000
Address: 3521 Leonard Ct, Santa Clara, CA 95054

Report Information

Current Result Previous Result In Control Moderate Risk

Specimen Information

Sample Type	Collection Time	Received Time	Report	Final Report Date
Metal Free Urine	2024-03-26 07:00 (PDT)	2024-03-27 14:25 (PDT)	Total Toxins - P2 Mycotoxins - P3 Heavy Metals - P9 Environmental Toxins - P13	2024-04-08 11:58 (PDT) 2024-04-01 16:25 (PDT) 2024-04-08 11:58 (PDT) 2024-04-08 11:35 (PDT)



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

TNP Test not performed

R&L Refer to risks and limitations at the end of report

Notes Refer to Lab notes at the end of the table

Total Toxins - Summary

High						
Test Name	Current	Previous	Result		Reference	
			75th	95th		
Glyphosate (ug/g)	9.29		1.65	7.6	≤7.6	
Lead^ (ug/g)	2.42		0.52	1.16	≤1.16	
Dihydrocitrinone (ng/g)	19.13		9.3	16.53	≤16.53	
Ochratoxin A (OTA) (ng/g)	19.56		3.83	6.8	≤6.8	

Suboptimal						
Test Name	Current	Previous	Result		Reference	
			75th	95th		
Bisphenol A (BPA)^ (ug/g)	2.69		2.12	5.09	≤5.09	
Arsenic^ (ug/g)	19.55		11.9	52	≤52	
Aflatoxin G1 (ng/g)	4.40		3.68	6.53	≤6.53	
Roridin A (ng/g)	4.73		4.28	7.6	≤7.6	

Creatinine				
Test Name	Current	Previous	Result	Reference
Urine Creatinine (mg/mL)	1.65		0 0.24 2.16	0.25-2.16

INTRODUCTION

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. The panel is designed to give a complete picture of an individual's levels of these mycotoxins in urine. The results are provided in 3 tables subgrouping the mycotoxins into Aflatoxins, Trichothecenes and Other Mycotoxins. Reference ranges were determined using urine samples from 1000 apparently healthy individuals.

Methodology:

The Vibrant Mycotoxins panel uses tandem mass spectrometry methodology (LC-MS/MS) for quantitative detection of mycotoxins in urine samples. Urine creatinine is measured using a kinetic colorimetric assay based on the Jaffé method. All mycotoxins are reported as the quantitative result normalized to urine creatinine to account for urine dilution variations.

Interpretation of Report:

The report begins with the summary page which lists only the mycotoxins whose levels are high or moderate based on the reference range. Additionally, the previous value is also indicated to help check for improvements every time the test is ordered. Following this section is the complete list of the mycotoxins results and their absolute levels are normalized with respect to Creatinine in a histogram format to enable a full overview along with the reference ranges. The level of the mycotoxin with reference range is shown with three shades of color – Green, Yellow and Red. The result in green corresponds to 0th to 75th percentile indicates mild (Low diet intake) exposure to the respective toxin. The result in yellow corresponds to 75th to 95th percentile indicates moderate exposure to the respective toxin whereas the result in red corresponding to greater than 95th percentile indicates high exposure to the respective toxin. All contents 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 the clinical 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. 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 healthcare provider for medication, treatment, or lifestyle management. This product is not intended to diagnose, treat, or cure any disease.

Please note:

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 healthcare provider before making any changes.

Aflatoxin

Test Name	Current	Previous	75th	Result	95th	Reference
Aflatoxin G1 (ng/g)	4.40		3.68		6.53	≤6.53

BACKGROUND

Aflatoxin M1 is a metabolite of aflatoxin B1, which is produced by molds such as *Aspergillus flavus* and *Aspergillus parasiticus*. Aflatoxin M1 is formed when animals, particularly dairy cows, consume feed contaminated with aflatoxin B1, and it is excreted in their milk.

ASSOCIATED RISK

Aflatoxin M1 has been regarded as a human carcinogen. It can cause liver damage, immune suppression, internal haemorrhaging, muscle tremors, and impact gain and efficiency.

POSSIBLE SOURCES

Contaminated milk. Aflatoxin M1 is mainly found in the milk of cattle fed with contaminated aflatoxin feed. Consumption of such animal products exposes humans to Aflatoxin M1.

DETOX SUGGESTIONS

To mitigate aflatoxin M1 effects, it is important to include a diet rich in antioxidants, stay hydrated, and consider liver-supporting supplements like milk thistle. Prevention through food safety practices is key, as there is no direct method to detoxify aflatoxin from the body.

Other Mycotoxins

Test Name	Current	Previous	75th	Result	95th	Reference
Dihydrocitrinone (ng/g)	19.13		9.3		16.53	≤16.53

BACKGROUND

Dihydrocitrinone (DHC) is a metabolite derived from Citrinin (CTN), a mycotoxin produced by molds such as *Aspergillus*, *Penicillium*, and *Monascus*. CTN exposure is associated with nephropathy due to its ability to increase mitochondrial membrane permeability in the kidneys. Additionally, CTN has been identified as carcinogenic.

ASSOCIATED RISK

Exposure to DHC, as a metabolite of CTN, poses significant health risks, particularly related to nephropathy, or kidney damage. CTN's ability to disrupt mitochondrial function in renal cells contributes to nephrotoxicity. Moreover, CTN has carcinogenic properties, potentially increasing the risk of cancer upon exposure.

POSSIBLE SOURCES

DHC exposure occurs through contaminated grains, fruits, and spices, as well as via metabolic transformation of CTN in the body after ingestion.

DETOX SUGGESTIONS

Activated charcoal solutions act as adsorbents, binding the toxin in the gastrointestinal tract and enhancing its removal from the body through bowel excretion. Antioxidants help mitigate trichothecene-induced damage by combating reactive oxygen species production. A diet rich in probiotics, vitamins, nutrients, proteins, and lipids is effective in reducing trichothecene poisoning symptoms.

Other Mycotoxins

Test Name	Current	Previous	75th	Result	95th	Reference
Ochratoxin A (OTA) (ng/g)	19.56		3.83		6.8	≤6.8

BACKGROUND

Ochratoxin is a mycotoxin produced by various fungal species such as *Aspergillus ochraceus*, *Aspergillus carbonarius*, *Aspergillus niger* and *Penicillium verrucosum*.

ASSOCIATED RISK

Ochratoxin A has been recognised as a renal toxin owing to its ability to induce nephrotoxicity and renal tumors. It displays a long elimination half-life and stimulates the major inflammatory cytokines released. Ochratoxin A is efficiently absorbed from the gastrointestinal tract into the small intestine where it seen to effectively interrupt the intestinal barrier functions.

POSSIBLE SOURCES

Contaminated Barley, oats, rye, wheat, coffee beans, pork.

DETOX SUGGESTIONS

Detoxification of ochratoxin involves the use of activated charcoal (AC) to bind and neutralize the toxin in the gastrointestinal tract. To minimize the risk of nutrient depletion, AC should be taken separately from essential nutrients. Concurrent use of an oral multimineral formula or IV nutrient therapy can help replenish any lost nutrients during detoxification.

Trichothecenes

Test Name	Current	Previous	75th	Result	95th	Reference
Roridin A (ng/g)	4.73		4.28		7.6	≤7.6

BACKGROUND

Roridin A, a cytostatic compound, was isolated from cultures of *Myrothecium verrucaria* and *Myrothecium roridum*.

ASSOCIATED RISK

Experiments have demonstrated that exposure to Roridin A poses associated risks including nasal inflammation, increased secretion of mucus, and potential damage to the olfactory system.

POSSIBLE SOURCES

Oral, dermal, inhalation, and parenteral (contaminated drugs).

DETOX SUGGESTIONS

Detoxification strategies for Roridin A include the use of activated charcoal solutions as adsorbents to bind the toxin in the gastrointestinal tract and facilitate its removal through bowel excretion. Additionally, antioxidants can mitigate trichothecene-induced damage by combating the production of reactive oxygen species. A diet rich in probiotics, vitamins, nutrients, proteins, and lipids aids in reducing symptoms of trichothecene poisoning.

Creatinine

Test Name	Current	Previous	Result	Reference
Urine Creatinine (mg/mL)	1.65			0.25-2.16

Aflatoxin

Test Name	Current	Previous	75th	Result	95th	Reference
Aflatoxin B1 (AFB1) (ng/g)	2.84		3.9		6.93	≤6.93
Aflatoxin B2 (AFB2) (ng/g)	0.16		4.58		8.13	≤8.13
Aflatoxin G1 (ng/g)	4.40		3.68		6.53	≤6.53
Aflatoxin G2 (ng/g)	1.86		6.08		10.8	≤10.8
Aflatoxin M1 (ng/g)	2.92		3.6		6.4	≤6.4

Other Mycotoxins

Test Name	Current	Previous	75th	Result	95th	Reference
Chaetoglobosin A (CHA) (ng/g)	4.74		17.93		31.87	≤31.87
Citrinin (CTN) (ng/g)	0.71		7.05		12.53	≤12.53
Dihydrocitrinone (ng/g)	19.13		9.3		16.53	≤16.53
Enniatin B1(ENN B1) (ng/g)	0.13		0.13		0.22	≤0.22
Fumonisin B1 (ng/g)	1.06		3.45		6.13	≤6.13
Fumonisin B2 (ng/g)	2.95		4.05		7.2	≤7.2
Fumonisin B3 (ng/g)	2.34		6.08		10.8	≤10.8
Gliotoxin (ng/g)	54.55		116.93		207.87	≤207.87
Mycophenolic Acid (ng/g)	0.15		3.6		6.4	≤6.4
Ochratoxin A (OTA) (ng/g)	19.56		3.83		6.8	≤6.8
Patulin (ng/g)	4.40		6.53		11.6	≤11.6
Sterigmatocystin (STC) (ng/g)	0.09		0.3		0.53	≤0.53
Zearalenone (ZEN) (ng/g)	0.21		0.38		0.67	≤0.67

Trichothecenes

Test Name	Current	Previous	75th	Result	95th	Reference
Deoxynivalenol(DON) (ng/g)	3.05		37.95		67.47	≤67.47

Trichothecenes

Test Name	Current	Previous	Result		Reference
			75th	95th	
Diacetoxyscirpenol (DAS) (ng/g)	0.14		2.4	4.27	≤4.27
Nivalenol (NIV) (ng/g)	0.85		1.8	3.2	≤3.2
Roridin A (ng/g)	4.73		4.28	7.6	≤7.6
Roridin E (ng/g)	<0.05		0.75	1.33	≤1.33
Roridin L2 (ng/g)	0.42		3.83	6.8	≤6.8
Satratoxin G (ng/g)	<0.05		0.1	0.18	≤0.18
Satratoxin H (ng/g)	0.09		0.1	0.18	≤0.18
T-2 Toxin (ng/g)	0.10		0.1	0.18	≤0.18
Verrucarin A (ng/g)	0.65		0.75	1.33	≤1.33
Verrucarin J (ng/g)	1.40		5.18	9.2	≤9.2

SAMPLE

Risk and Limitations

This test has been developed and its performance characteristics determined by Vibrant America LLC., a CLIA and CAP 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. Clinical history must be incorporated into the diagnostic determination. 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 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 mycotoxin 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 medical advice and are not a substitute for professional medical advice. Please consult your healthcare practitioner for questions regarding test results, or before beginning any course of medication, supplementation or dietary changes.

SAMPLE

INTRODUCTION

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 that someone might be exposed to. The panel is designed to give a complete picture of an individual's levels of these metals in urine. Reference ranges were determined based on NHANES data ([cdc.gov/nhanes](https://www.cdc.gov/nhanes)) if available and other reference ranges are established based on urine samples from 1000 apparently healthy, unprovoked, unmedicated and unsupplemented individuals.

Methodology:

The Vibrant Heavy metals uses Inductively coupled plasma mass spectrometry (ICP-MS) for quantitative detection of heavy metals in urine. Urine creatinine is measured using a kinetic colorimetric assay based on the Jaffé method. All heavy metals are reported as the quantitative result normalized to urine creatinine to account for urine dilution variations.

Interpretation of Report:

The report begins with the summary page which lists only the heavy metals whose levels are high or moderate based on the reference range. Additionally, the previous value is also indicated to help check for improvements every time the test is ordered. Following this section is the complete list of the heavy metals and their absolute levels are normalized with respect to Creatinine in a histogram format to enable a full overview along with the reference ranges. The level of the heavy metals with reference range is shown with three shades of color – Green, Yellow and Red. The result in green corresponds to 0th to 75th percentile indicates mild exposure to the respective heavy metal. The result in yellow corresponds to 75th to 95th percentile indicates moderate exposure to the respective heavy metal whereas the result in red corresponding to greater than 95th percentile indicates high exposure to the heavy metal. All contents 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 the clinical 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. 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 healthcare provider/dietitian for medication, treatment, or lifestyle management. This product is not intended to diagnose, treat, or cure any disease.

Please note:

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 healthcare provider before making any changes.

Heavy Metals

Test Name	Current	Previous	75th	Result	95th	Reference
Lead^ (ug/g)	2.42		0.52		1.16	≤1.16

POSSIBLE SOURCES

Leaded gasoline, smelting of lead and its combustion, pottery, boat building, lead-based painting, lead-containing pipes, battery recycling, grids, pigments, and printing of books.

ASSOCIATED RISK

Lead, a highly toxic metal, affects nearly every organ, targeting the brain and central nervous system, leading to coma, convulsions, and death. Children are especially vulnerable, experiencing impaired brain development, reduced IQ, and behavioral issues. Lead exposure also causes anemia, hypertension, kidney problems, immunotoxicity, and reproductive issues, often attributed to alterations in brain proteins.

DETOX SUGGESTIONS

Once lead enters the body, it tends to accumulate in bones, posing a challenge for removal. Chelation therapy offers a solution by employing medications capable of binding to and extracting toxic metals from the body. These drugs function by chelating to metals present in the bloodstream and facilitating their elimination through urine or stool.

Arsenic^ (ug/g)	19.55		11.9		52	≤52
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POSSIBLE SOURCES

Ingestion, inhalation, contaminated drinking water, dermal exposure, industrial manufacturing, food preservative, smoking, food grown in arsenic-contaminated soils, and cosmetics.

ASSOCIATED RISK

Acute arsenic poisoning includes diarrhea, vomiting, abdominal pain, muscle cramping, and numbness and tingling of extremities. Conversely, chronic exposure to arsenic is associated with severe health implications including skin, bladder, and lung cancer, heart attack, pulmonary disease, cardiovascular diseases, kidney failure, and diabetes.

DETOX SUGGESTIONS

Chelation therapy is commonly used for arsenic detoxification. Dimercaptosuccinic acid (DMSA) and dimercaptopropanesulfonic acid (DMPS) are chelating agents that bind to arsenic, facilitating its excretion through urine. These agents are administered orally and are effective in removing arsenic from the body. [18] Additionally, antioxidants such as selenium may help mitigate arsenic toxicity by reducing oxidative stress and promoting detoxification processes.

Creatinine

Test Name	Current	Previous	Result	Reference
Urine Creatinine (mg/mL)	1.65			0.25-2.16

Test Name	Current	Previous	Result		Reference
			75th	95th	
Aluminum (ug/g)	<3		17.83	45.15	≤45.15
Antimony^ (ug/g)	0.04		0.07	0.16	≤0.16
Arsenic^ (ug/g)	19.55		11.9	52	≤52
Barium^ (ug/g)	<1		2.33	5.59	≤5.59
Beryllium^ (ug/g)	<0.1		0.2	0.76	≤0.76
Bismuth (ug/g)	<0.1		0.58	2.53	≤2.53
Cadmium^ (ug/g)	<0.1		0.29	0.8	≤0.8
Cesium^ (ug/g)	3.26		6.37	10.3	≤10.3
Gadolinium (ug/g)	<0.05		0.17	0.45	≤0.45
Lead^ (ug/g)	2.42		0.52	1.16	≤1.16
Mercury^ (ug/g)	0.11		0.57	1.61	≤1.61
Nickel (ug/g)	3.58		6.37	12.13	≤12.13
Palladium (ug/g)	<0.1		0.15	0.2	≤0.2
Platinum^ (ug/g)	<0.05		0.1	0.9	≤0.9
Tellurium (ug/g)	0.10		0.42	0.89	≤0.89
Thallium^ (ug/g)	<0.1		0.24	0.43	≤0.43
Thorium (ug/g)	<0.01		0.02	0.07	≤0.07
Tin^ (ug/g)	<0.2		1	3.72	≤3.72
Tungsten^ (ug/g)	<0.04		0.12	0.33	≤0.33
Uranium^ (ug/g)	0.01		0.02	0.04	≤0.04

Risk and Limitations

This test has been developed and its performance characteristics determined and validated by Vibrant America LLC., a CLIA and CAP certified lab. These assays have not been cleared or approved by the U.S. Food and Drug Administration. Vibrant Wellness provides additional contextual information on these tests and provides the report in more descriptive fashion.

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 healthcare provider's clinical assessment.

Heavy Metals Panel testing is performed at Vibrant America, a CLIA and CAP 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 test 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.

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. Tested individuals may find their experience is not consistent with Vibrant's selected peer reviewed scientific research findings of relative improvement for study groups. The science in this area is still developing and many personal health factors affect diet and health. Since subjects in the scientific studies referenced in this report may have had personal health and other factors different from those of tested individuals, results from these studies may not be representative of the results experienced by tested individuals. Further, some recommendations may or may not be attainable, depending on the tested individual's physical ability or other personal health factors. A limitation of this testing is that many of these scientific studies may have been performed in selected populations only. The interpretations and recommendations are done in the context of these studies, but the results may or may not be relevant to tested individuals of different or mixed ethnicities.

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 medical advice and are not a substitute for professional medical advice. Please consult your healthcare practitioner for questions regarding test results, or before beginning any course of medication, supplementation, or dietary changes.

SAMPLE

INTRODUCTION

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 that someone might be exposed to. The panel is designed to give a complete picture of an individual's levels of these toxins in urine. The panel is sub-grouped into Pesticides, Phthalates, Parabens, Acrylic, Alkyl phenols and Volatile Organic Compounds. Reference ranges for tests flagged with ^ were determined based on NHANES data ([cdc.gov/nhanes](https://www.cdc.gov/nhanes)) if available and other reference ranges are established based on urine samples from 1000 apparently healthy individuals.

Methodology:

The Vibrant Environmental Toxins panel uses tandem mass spectrometry methodology (LC-MS/MS) for quantitative detection of toxins in urine samples. Urine creatinine is measured using a kinetic colorimetric assay based on the Jaffé method. All environmental toxins are reported as the quantitative result normalized to urine creatinine to account for urine dilution variations.

Interpretation of Report:

The report begins with the summary page which lists only the environmental toxins whose levels are high or moderate in the reference range. Additionally, the previous value is also indicated to help check for improvements every time the test is ordered. Following this section is the complete list of the environmental toxins and their absolute levels are normalized with respect to Creatinine in a histogram format to enable a full overview along with the reference ranges. The level of the environmental toxins is shown with three shades of color – Green, Yellow and Red. The result in green corresponds to 0th to 75th percentile indicates mild exposure to the respective toxin. The result in yellow corresponds to 75th to 95th percentile indicates moderate exposure to the respective toxin whereas the result in red corresponding to greater than 95th percentile indicates high exposure to the respective toxin. All contents 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 the clinical provider.

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Please note:

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 healthcare provider before making any changes.

Environmental phenols

Test Name	Current	Previous	75th	Result	95th	Reference
Bisphenol A (BPA) [^] (ug/g)	2.69		2.12		5.09	≤5.09

BACKGROUND

BPA is one of the highest volume of chemicals produced worldwide. It is a starting material for the synthesis of plastics. BPA-based plastic is clear and tough, and is made into plastic bottles including water bottles, sports equipment, CDs, and DVDs. Epoxy resins containing BPA are used to line water pipes, as coatings on the inside of many food and beverage cans and in making thermal paper such as that used in sales receipts.

ASSOCIATED RISK

Exposure to Bisphenol A cause fertility problems, male impotence, heart disease and other conditions. BPA is a xenoestrogen, exhibiting estrogen-mimicking, hormone-like properties that raise concern about its suitability in some consumer products and food containers.

POSSIBLE SOURCES

The main source of BPA contamination in humans is through food, primarily driven by the exposure of animals and raw materials to BPA, the accumulation of BPA in the environment, and the contact of food with polymers containing this substance. Inhalation is the second main source of exposure. BPA can accumulate in household dust and be inhaled.

DETOX SUGGESTIONS

The detoxification mechanism for BPA involves sweating, as facilitated by infrared and steam sauna sessions. Sweating allows BPA to be released from the body through the skin.

Herbicides

Test Name	Current	Previous	75th	Result	95th	Reference
Glyphosate (ug/g)	9.29		1.65		7.6	≤7.6

BACKGROUND

Glyphosate is a broad-spectrum systemic herbicide and crop desiccant widely utilized to eliminate weeds, particularly annual broadleaf weeds and competing grasses in crop fields.

ASSOCIATED RISK

This exposure may have implications for liver health, metabolic disorders, and adverse effects on the nervous system. Glyphosate exposure during early life stages can disrupt normal cell development, impacting critical signalling pathways and causing issues like altered differentiation, neuronal growth, migration, and myelination (2,3).

POSSIBLE SOURCES

Glyphosate exposure can stem from various sources, including occupational use, residential proximity to farmland, living with occupational users, dietary consumption of food with residues, ingesting contaminated water, and secondary exposure through contact with treated areas.

DETOX SUGGESTIONS

Citrus pectin, alginates from kelp, and glycine act as powerful detoxifiers. Citrus pectin clears environmental toxins and cholesterol, alginates protect against herbicides and remove toxins, while glycine aids in glutathione production, preventing glyphosate storage. Gingko biloba serves as a potent protector against glyphosate toxicity (20-22).

Mitochondrial Marker

No markers are outside the normal reference range

Other Markers

No markers are outside the normal reference range

Parabens

No markers are outside the normal reference range

Pesticides

No markers are outside the normal reference range

Phthalates

No markers are outside the normal reference range

Volatile organic compounds

No markers are outside the normal reference range

Creatinine

Test Name	Current	Previous	Result	Reference
Urine Creatinine (mg/mL)	1.65			0.25-2.16

Environmental Toxins

Environmental phenols

Test Name	Current	Previous	75th	Result	95th	Reference
4-Nonylphenol (ug/g)	0.38		0.42		2.06	≤2.06
Bisphenol A (BPA)^ (ug/g)	2.69		2.12		5.09	≤5.09
Triclosan (TCS)^ (ug/g)	20.77		29.9		358	≤358

Herbicides

Test Name	Current	Previous	75th	Result	95th	Reference
2,4-Dichlorophenoxyacetic Acid (2,4-D)^ (ug/g)	0.06		0.5		1.55	≤1.55
Atrazine ^ (ug/g)	0.01		0.02		0.05	≤0.05
Atrazine mercapturate^ (ug/g)	0.01		0.02		0.05	≤0.05
Glyphosate (ug/g)	9.29		1.65		7.6	≤7.6

Mitochondrial Marker

Test Name	Current	Previous	75th	Result	95th	Reference
Tiglylglycine (TG) (ug/g)	0.02		0.09		3.24	≤3.24

Other Markers

Test Name	Current	Previous	75th	Result	95th	Reference
Diphenyl Phosphate (DPP) (ug/g)	0.53		1.1		3.7	≤3.7
N-acetyl-S-(2-carbamoyl-ethyl)-cysteine^ (ug/g)	0.26		82		199	≤199
Perchlorate (PERC)^ (ug/g)	0.02		4.89		10.7	≤10.7

Parabens

Test Name	Current	Previous	75th	Result	95th	Reference
Butylparaben^ (ug/g)	0.20		0.25		4.39	≤4.39
Ethylparaben ^ (ug/g)	0.02		5.41		99.3	≤99.3
Methylparaben^ (ug/g)	17.95		180		653	≤653
Propylparaben^ (ug/g)	23.88		36.7		222	≤222

Environmental Toxins

Pesticides

Test Name	Current	Previous	75th	Result	95th	Reference
2,2-bis(4-Chlorophenyl) acetic acid (DDA) (ug/g)	6.70		7.9		19	≤19
3-Phenoxybenzoic Acid (3PBA) [^] (ug/g)	0.31		1.01		5.44	≤5.44
Diethyl phosphate (DEP) [^] (ug/g)	2.19		3.2		15.7	≤15.7
Diethyldithiophosphate (DEDTP) [^] (ug/g)	0.05		0.17		0.3	≤0.3
Diethylthiophosphate (DETP) [^] (ug/g)	0.57		1.24		3.92	≤3.92
Dimethyl phosphate (DMP) [^] (ug/g)	4.90		9.1		33.6	≤33.6
Dimethyldithiophosphate (DMDTP) [^] (ug/g)	0.30		0.67		6.12	≤6.12
Dimethylthiophosphate (DMTP) [^] (ug/g)	4.05		5.91		33.7	≤33.7

Phthalates

Test Name	Current	Previous	75th	Result	95th	Reference
Mono-(2-ethyl-5-hydroxyhexyl) phthalate (MEHHP) [^] (ug/g)	0.10		14.1		37.7	≤37.7
Mono-(2-ethyl-5-oxohexyl) phthalate (MEOHP) [^] (ug/g)	0.19		8.99		23.4	≤23.4
Mono-2-ethylhexyl phthalate (MEHP) [^] (ug/g)	0.41		2.73		8.47	≤8.47
Mono-ethyl phthalate (MEtP) [^] (ug/g)	2.58		94.2		541	≤541

Volatile organic compounds

Test Name	Current	Previous	75th	Result	95th	Reference
2-Hydroxyethyl Mercapturic Acid (HEMA) [^] (ug/g)	0.36		1.7		4.75	≤4.75
2-Hydroxyisobutyric Acid (2HIB) (ug/g)	19.19		795.93		1215.72	≤1215.72
2-Methylhippuric Acid (2MHA) [^] (ug/g)	2.97		77.9		248	≤248
3-Methylhippuric Acid (3MHA) (ug/g)	2.43		64.8		612.83	≤612.83
4-Methylhippuric Acid (4MHA) (ug/g)	2.43		65.51		752.72	≤752.72
N-Acetyl (2-Cyanoethyl) Cysteine (NACE) [^] (ug/g)	2.68		5.28		256	≤256
N-Acetyl (2-Hydroxypropyl) Cysteine (NAHP) [^] (ug/g)	0.08		101		403	≤403

Volatile organic compounds

Test Name	Current	Previous	Result		Reference
			75th	95th	
N-Acetyl (3,4-Dihydroxybutyl) Cysteine^ (ug/g)	0.57		374	583	≤583
N-Acetyl (Propyl) Cysteine (NAPR)^ (ug/g)	0.03		11.3	46.1	≤46.1
N-acetyl phenyl cysteine (NAP)^ (ug/g)	0.78		1.29	3.03	≤3.03
Phenyl glyoxylic Acid (PGO)^ (ug/g)	5.77		285	518	≤518

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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 Environmental 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.

Environmental Toxins 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 toxin 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.

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