VibrantWellness
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Final Report Date:	12-02-2019 10:45	**Specimen Collected:**	11-30-2015
Accession ID:	1512010000	**Specimen Received:**	12-01-2015 00:00

LAST NAME	FIRST NAME	GENDER	DATE OF BIRTH	ACCESSION ID	DATE OF SERVICE
TESTNAME	PATIENT	MALE	1961-01-20	1512010000	11-30-2015

PATIENT

Name: PATIENT TESTNAME
Date of Birth: 1961-01-20
Gender: Male
Age: 58
Height: 5'9" Weight: 160 lbs

Telephone #: test@vibrantsci.com
Street Address: 1021 HOWARD AVENUE SUITE B
City: SAN CARLOS
State: CA Zip #: 94070

Fasting: FASTING No. of hours: 12.0

PROVIDER

Practice Name: Vibrant IT4 Practice
Provider Name: Vibrant IT4, MD (999999)
Street Address: 999999 PRACTICE STREET AVE
City: SAN CARLOS
State: CA
Zip #: 94404
Telephone #: 666-666-6662
Fax #: 111-222-0000

For doctor's reference

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.

Interpretation of Report: The report begins with the summary page which lists only the toxins are high or moderate in comparison to the reference range. Following the summary section is the complete list of the environmental toxins along with the levels in a tabular form to enable a full overview along with the corresponding reference ranges. The level of the toxin has a green, yellow or red highlight around the cell indicating – Mild, Moderate or High levels in comparison to our reference population. Additionally, the previous value is also indicated to help check for improvements every time the test is ordered. 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 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 food additives 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 physician for medication, treatment, diet, exercise or lifestyle management as appropriate. This product is not intended to diagnose, treat, or cure any disease or condition..

Please Note - Pediatric ranges have not been established for this test. To schedule an appointment with Vibrant Clinical Dietitians please call: Toll-Free 866-364-0963..

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Environmental Toxins Summary

Environmental Toxins - High

Test Name	In Control	Moderate	High	Current Level	Previous Level 08/20/2015
Methylparaben (mcg/g)	≤220.00	220.01~849.99	≥850.00	975.00	112.00
Bisphenol A (BPA) (mcg/g)	≤3.20	3.21~10.80	≥10.81	12.80	28.40
Phenylglyoxylic Acid (PGO) (mcg/g)	≤105.60	105.61~387.89	≥387.90	488.00	4.50

Environmental Toxins - Moderate

Test Name	In Control	Moderate	High	Current Level	Previous Level 08/20/2015
Mono-ethyl phthalate (MEtP) (mcg/g)	≤305.00	305.01~1478.22	≥1478.23	486.80	2.30

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Environmental Toxins Complete List

Organochlorine pesticides

Test Name (mcg/g)	In Control	Moderate	High	Current Level	Previous Level 08/20/2015
2,4-Dichlorophenoxyacetic Acid (2,4-D)	≤0.30	0.31~2.34	≥2.35	0.05	3.63
Perchlorate	≤2.50	2.51~16.19	≥16.20	1.30	14.08
DDA	≤9.50	9.51~28.79	≥28.80	0.15	8.19

Organophosphate pesticides

Test Name (mcg/g)	In Control	Moderate	High	Current Level	Previous Level 08/20/2015
Diethyldithiophosphate (DEDTP)	≤0.20	0.21~0.48	≥0.49	0.16	4.19
Dimethyldithiophosphate (DMDTP)	≤0.80	0.81~5.08	≥5.09	0.80	5.75
Diethylthiophosphate (DETP)	≤0.70	0.71~2.76	≥2.77	0.42	7.49
Dimethylphosphate (DMP)	≤5.20	5.21~37.19	≥37.20	4.78	3.11
Diethylphosphate (DEP)	≤0.80	0.81~12.59	≥12.60	0.42	3.50
Dimethylthiophosphate (DMTP)	≤4.60	4.61~29.20	≥29.21	3.90	9.82
Atrazine	≤0.02	0.03~0.05	≥0.06	<0.01	7.16
Atrazine mercapturate	≤0.03	0.04~0.06	≥0.07	0.01	7.04

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Other pesticides/herbcides

Test Name (mcg/g)	In Control	Moderate	High	Current Level	Previous Level 08/20/2015
Glyphosate	≤0.75	0.76~2.29	≥2.30	0.17	19.76
3-Phenoxybenzoic Acid (3PBA)	≤0.57	0.58~6.39	≥6.40	0.32	29.33

Phthalate Metabolites

Test Name (mcg/g)	In Control	Moderate	High	Current Level	Previous Level 08/20/2015
Monoethyl Phthalate (MEP)	≤5.90	5.91~678.89	≥678.90	2.92	29.96
mono-2-ethylhexyl phthalate (MEHP)	≤5.00	5.01~23.89	≥23.90	4.02	3.20
mono-(2-ethyl-5-hydroxyhexyl) phthalate (MEHHP)	≤42.00	42.01~168.99	≥169.00	19.65	4.85
mono-(2-ethyl-5-oxohexyl) phthalate (MEOHP)	≤20.00	20.01~109.99	≥110.00	0.52	7.83
Mono-ethyl phthalate (MEtP)	≤305.00	305.01~1478.22	≥1478.23	486.80	2.30

Comments

MEP is a metabolite of diethyl phthalate which belongs to the most common environmental toxin phthalates. Phthalates, often known as plasticizers, are a group of chemicals used to make plastics more flexible and harder to break. They are widely used in cosmetics, adhesives, detergents, lubricating oils, automotive plastics, plastic clothes. People are exposed to phthalates by eating or drinking contaminated foods but also by breathing in air that contains phthalate vapors or dusts. Inhaling phthalates can irritate the nose and throat causing coughing and wheezing, headache, dizziness, and nausea. Phthalates have been classified as endocrine disruptors which may cause reproductive damage, depressed leukocyte function, and even cancer. Phthalate exposure has also been associated with diabetes and insulin resistance, breast cancer, obesity, metabolic disorders, and immune disorders. Phthalate exposure and adverse child neurodevelopment, including the development of ADHD and autistic behaviors and lower cognitive and motor development has also been reported.

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Parabens

Test Name (mcg/g)	In Control	Moderate	High	Current Level	Previous Level 08/20/2015
Methylparaben	≤220.00	220.01~849.99	≥850.00	975.00	112.00
Propylparaben	≤45.00	45.01~247.89	≥247.90	43.58	5.07
Butylparaben	≤1.00	1.01~22.62	≥22.63	0.10	4.09
Ethylparaben	≤6.10	6.11~82.17	≥82.18	3.05	7.64

Comments

Methylparaben belongs to the paraben family and is an anti-fungal agent often used in a variety of cosmetics and personal-care products. It is also used as a food preservative. Methylparaben is generally recognized as safe (GRAS) by the USFDA for food and cosmetic antibacterial preservation. Methylparaben is readily absorbed from the gastrointestinal tract or through the skin. Studies indicate that methylparaben applied on the skin may react with UVB, leading to increased skin aging and DNA damage.

Acrylic Metabolites

Test Name (mcg/g)	In Control	Moderate	High	Current Level	Previous Level 08/20/2015
N-acetyl-S-(2-carbamoylethyl)-cysteine (NAE)	≤10.20	10.21~178.59	≥178.60	6.75	4.23
N-Acetyl (2-Cyanoethyl) Cysteine (NACE)	≤11.80	11.81~260.49	≥260.50	8.94	4.18

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Other Metabolites

Test Name (mcg/g)	In Control	Moderate	High	Current Level	Previous Level 08/20/2015
N-Acetyl (2,Hydroxypropl) Cysteine (NAHP)	≤5.00	5.01~429.99	≥430.00	4.84	9.38
N-Acetyl (3,4-Dihydroxybutyl) Cysteine (NADB)	≤7.50	7.51~478.29	≥478.30	4.44	6.83
2-Hydroxyethyl Mercapturic Acid (HEMA)	≤1.00	1.01~4.79	≥4.80	0.45	9.66
N-Acetyl Propyl Cysteine (NAPR)	≤5.00	5.01~49.99	≥50.00	2.53	5.94
Diphenyl Phosphate (DPP)	≤1.30	1.31~6.09	≥6.10	1.25	1.62
Tiglylglycine (TG)	≤0.10	0.11~11.29	≥11.30	0.08	6.28

Alkylphenol

Test Name (mcg/g)	In Control	Moderate	High	Current Level	Previous Level 08/20/2015
Bisphenol A (BPA)	≤3.20	3.21~10.80	≥10.81	12.80	28.40
Triclosan	≤45.00	45.01~417.98	≥417.99	10.56	2.14
4-Nonylphenol	≤0.50	0.51~4.82	≥4.83	0.39	6.69

Comments

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. BPA is a xenoestrogen, exhibiting estrogen-mimicking, hormone-like properties that raise concern about its suitability in some consumer products and food containers. FDA has ended its authorization of the use of BPA in baby bottles and infant formula packaging, based on market abandonment, not safety. Research has linked exposure to fertility problems, male impotence, heart disease and other conditions.

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Volatile Organic Compounds (VOCs)

Test Name (mcg/g)	In Control	Moderate	High	Current Level	Previous Level 08/20/2015
2-Methylhippuric Acid (2MHA)	≤74.00	74.01~792.29	≥792.30	51.83	4.94
3-Methylhippuric Acid (3MHA)	≤74.00	74.01~792.29	≥792.30	13.78	6.58
4-Methylhippuric Acid (4MHA)	≤74.00	74.01~792.29	≥792.30	3.86	6.68
2-Hydroxyisobutyric Acid (2HIB)	≤1005.00	1005.01~5789.99	≥5790.00	680.03	3.32
Phenylglyoxylic Acid (PGO)	≤105.60	105.61~387.89	≥387.90	488.00	4.50
N-acetyl phenyl cysteine (NAP)	≤0.45	0.46~2.89	≥2.90	0.23	0.77

Comments

PGO is a metabolite of styrene (ethylbenzene, vinylbenzene, phenylethene), which is an important chemical in production of rubber, plastic, insulation, fiberglass, pipes, food containers, and carpet backing. Styrene is a known carcinogen, especially in case of eye contact. Long-term exposure to styrene may cause central nervous system and kidney effects, headaches, depression, fatigue, hearing loss, balance and concentration problems, and even cancer.

Urine Creatinine

Test Name (mg/ml)	In Control	Moderate	High	Current Level	Previous Level 08/20/2015
Creatinine	0.20~2.20		≤0.19 ≥2.21	1.40	1.77

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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