



The Great Plains Laboratory, LLC

ENVIROTOX

ENVIROtox Panel

Every day, we are exposed to hundreds of toxic chemicals through products like pharmaceuticals, pesticides, packaged foods, household products, and environmental pollution. As we have become more accustomed to chemical-laden products, and as our environment has become more contaminated, we have been confronted with an accelerating rate of chronic illnesses like cancer, heart disease, chronic fatigue syndrome, chemical sensitivity, Autism Spectrum Disorders, AD(H)D, autoimmune disorders, Parkinson's disease, and Alzheimer's disease.

The ENVIROtox Panel will give you a comprehensive look at a patient's current toxic chemical burden, as well as any resulting oxidative stress, inflammation, and mitochondrial damage. Bundling these three tests together provides a more economical way of getting all of this invaluable information, and just from one urine sample. From there, we can provide you with recommendations on how to avoid future exposures and how to best detoxify the body of these toxins.

Because exposure to environmental pollutants has been linked to many chronic diseases, The Great Plains Laboratory has created its ENVIROtox Panel, a group of tests specifically designed to assess exposure to common environmental toxins and the damage that can be caused by this exposure. This panel includes three tests, all of which can be done from one urine sample:



Organic Acids Test

The Organic Acids Test has 76 markers and gives you a metabolic snapshot of a patient's health. It includes specific markers for oxidative stress and inflammation, such as quinolinic acid and pyroglutamic acid, which are often elevated in either acute or chronic toxic chemical exposure and/or when the body is not properly detoxifying chemicals. It also includes a marker for succinic acid, which is highly correlated with toxic chemical exposure.



GPL-TOX: Toxic Organic Chemical Profile

GPL-TOX tests for over 173 different chemicals including organophosphate pesticides, phthalates, benzene, xylene, vinyl chloride, pyrethrin insecticides, and others. This profile also includes Tiglylglycine (TG), a marker for mitochondrial disorders resulting from mutations of mitochondrial DNA. These mutations can be caused by exposure to toxic chemicals, infections, inflammation, and nutritional deficiencies.



Glyphosate Test

Glyphosate is the world's most widely used herbicide and is the primary ingredient in RoundUp™. In addition, it is a broad-spectrum herbicide that is used in more than 700 different products from agriculture and forestry to home use. The World Health Organization International Agency for Research on Cancer published a summary in March 2015 that classified glyphosate as a probable carcinogen in humans.

ENVIROtox Complete Panel

The ENVIROtox Complete Panel includes all three tests in the ENVIROtox Panel, plus the MycoTOX Profile, giving you even more value and more comprehensive testing for exposure to a wide variety of toxins, including mycotoxins from mold. This panel includes four tests, all of which can be done from one urine sample:



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Glyphosate Test

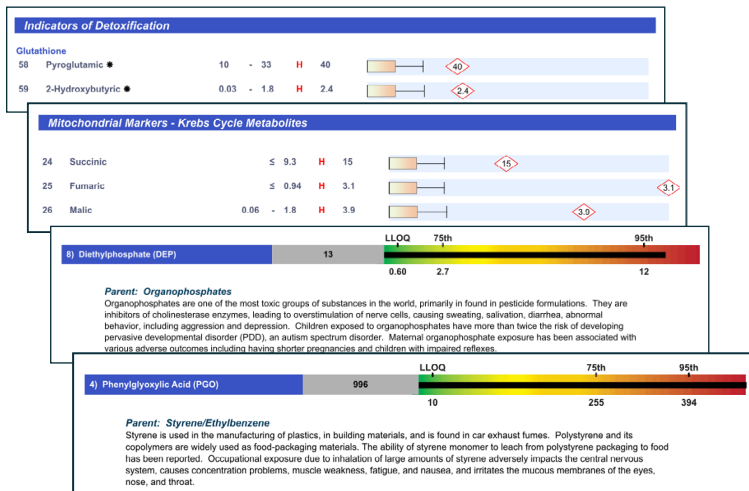
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MycoTOX Profile

Mycotoxins are metabolites produced by fungi like mold, which can infest buildings, vehicles, and foodstuffs. They are some of the most prevalent toxins in the environment. Diseases and symptoms linked to mycotoxin exposure include fever, pneumonia-like symptoms, heart disease, rheumatic disease, asthma, sinusitis, cancer, memory loss, vision loss, chronic fatigue, skin rashes, depression, ADHD, anxiety, and liver damage. The MycoTOX Profile screens for 11 different mycotoxins, from 40 species of mold, in one urine sample. It uses the power of advanced mass spectrometry (MS/MS), which is necessary to detect lower levels of these fungal toxins.

Sample Reports



Metabolite	Results (ng/g creatinine)	Common Range of Positive Results	
Aspergillus			
Aflatoxin-M1	0.00	3.5 - 20	▲ 3.5 20 ▼
Ochratoxin A	62.12	4 - 20	▲ 4 20 ▼
Gliotoxin	1366.35	200 - 2000	▲ 200 2000 ▼
Penicillium			
Sterigmatocystin	2.43	0.2 - 1.75	▲ 0.2 1.75 ▼
Mycophenolic Acid	91.04	5 - 50	▲ 5 50 ▼
Stachybotrys			
Roridin E	0.00	1 - 6	▲ 1 6 ▼

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