

Toxin Zoomer

The Toxin Zoomer evaluates a broad range of environmental toxicants and detox-response indicators to characterize overall toxic burden and clearance capacity. Markers span heavy metals, mycotoxins, environmental chemicals, and PFAS compounds measured in urine, alongside saliva-based genetic variants that influence detoxification efficiency, antioxidant defense, and toxin sensitivity. Together, these markers provide a structured view of exposure pressure and the body's ability to process and manage environmental stressors.

Heavy Metals						
<ul style="list-style-type: none"> Aluminum Antimony Arsenic 	<ul style="list-style-type: none"> Barium Beryllium Cadmium 	<ul style="list-style-type: none"> Cesium Cobalt Gadolinium 	<ul style="list-style-type: none"> Lead Mercury (Total) 	<ul style="list-style-type: none"> Nickel Platinum Strontium 	<ul style="list-style-type: none"> Thallium Thorium Tin 	<ul style="list-style-type: none"> Titanium Tungsten Uranium
Mycotoxins						
<ul style="list-style-type: none"> Aflatoxin B1 (AFB1) Aflatoxin B2 (AFB2) Aflatoxin M1 (AFM1) Aflatoxin G1 (AFG1) Aflatoxin G2 (AFG2) Deoxynivalenol (DON) Diacetoxyscirpenol (DAS) 	<ul style="list-style-type: none"> Isosatratoxin F Nivalenol (NIV) Roridin A Roridin E Roridin L2 Satratoxin G Satratoxin H 	<ul style="list-style-type: none"> T-2 Toxin Verrucarin A Citrinin (CTN) Dihydrocitrinone Enniatin B1 (ENN B1) Verrucarin J 	<ul style="list-style-type: none"> Chaetoglobosin A (CHA) Fumonisin B1 (FB1) Fumonisin B2 (FB2) Fumonisin B3 (FB3) Gliotoxin Mycophenolic Acid (MPA) 	<ul style="list-style-type: none"> Ochratoxin A (OTA) Patulin Sterigmatocystin (STC) Zearalenone (ZEN) 		
Environmental Chemicals						
<ul style="list-style-type: none"> 4-Nonylphenol Bisphenol A (BPA) Triclosan (TCS) 2,4-Dichlorophenoxyacetic Acid (2,4-D) Atrazine Atrazine mercapturate Glyphosate Tiglylglycine (TG) Diphenyl Phosphate (DPP) N-acetyl-S-(2-carbamoylethyl)-cysteine (NAE) Perchlorate (PERC) Butylparaben Ethylparaben Methylparaben 	<ul style="list-style-type: none"> Propylparaben 2,2-bis(4-Chlorophenyl) acetic acid (DDA) 3-Phenoxybenzoic Acid (3PBA) Diethyl phosphate (DEP) Diethyldithiophosphate (DEDTP) Diethylthiophosphate (DETP) Dimethyl phosphate (DMP) Dimethyldithiophosphate (DMDTP) Dimethylthiophosphate (DMTP) Mono-ethyl phthalate (MEP) mono-2-ethylhexyl phthalate (MEHP) mono-(2-ethyl-5-oxohexyl) phthalate (MEOHP) mono-(2-ethyl-5-hydroxyhexyl) phthalate (MEHHP) 	<ul style="list-style-type: none"> 2-Hydroxyethyl Mercapturic Acid (HEMA) 2-Hydroxyisobutyric Acid (2HIB) 2-Methylhippuric Acid (2MHA) 3-Methylhippuric Acid (3MHA) 4-Methylhippuric Acid (4MHA) N-Acetyl (2-Cyanoethyl) Cysteine (NACE) N-Acetyl (2-Hydroxypropyl) Cysteine (NAHP) N-Acetyl (3,4-Dihydroxybutyl) Cysteine (NADB) N-Acetyl (Propyl) Cysteine (NAPR) N-acetyl phenyl cysteine (NAP) Phenyl glyoxylic Acid (PGO) 				
PFAS Compounds			Detoxification & Toxin-Response Genetics <i>(Add-On Markers)</i>			
<ul style="list-style-type: none"> PFOA PFOS PFNA PFHxS PFHpA PFBA PFHxA PFPeA 	<ul style="list-style-type: none"> PFDaA PFDeA PFUnA PFTrDA PFTeDA PFHpS MPFHxA M2PFOA 	<ul style="list-style-type: none"> MPFOS MPFDA GenX / HFPO-DA NaDONA 9Cl-PF3ONS 	Xenobiotics <ul style="list-style-type: none"> SULT1A1 (rs1042157) CYP1A2 (rs762551) GSTP1 (rs1871042) GPx4 (rs713041) COMT (rs4680) Environmental Toxins <ul style="list-style-type: none"> EPHX1 (rs2234922, rs1051741) EPHX2 (rs751141) UGT2B15 (rs1902023) CYP1A1 (rs1048943) CYP1B1 (rs1056836) GSTP1 (rs1695, rs1138272) 	Heavy Metals <ul style="list-style-type: none"> MT1A (rs11076161) GSTP1 (rs1695, rs1138272) GPx1 (rs1050450) Mycotoxins <ul style="list-style-type: none"> ITGB3 (rs2056131) XRCC4 (rs28383151, rs3734091) XRCC1 (rs25487) XRCC3 (rs861539) XRCC7 (rs7003908) XPB (rs13181) XPC (rs2228001) 		