The gold standard of accuracy in the lab industry

The Toxin Genetics test uses **real-time PCR (RT-PCR) technology** to detect genetic variants (SNPs) impacting detoxification of toxicants—including xenobiotics, environmental toxins, heavy metals, mycotoxins, and PFAS—with unparalleled sensitivity and specificity.

Toxin Genetics Markers

SNP ID	Gene	Risk Association
Environmental Toxins		
rs2234922	EPHX1	Benzene
rs1051741	EPHX1	Benzene
rs751141	EPHX2	Benzene
rs1902023	UGT2B15	Bisphenol A, Parabens (MeT, EtP)
rs1048943	CYP1A1	Organochlorine, Organophosphate
rs1056836	CYP1B1	Pesticides (Diazinon, Malathion)
rs1695	GSTP1	Benzidine, styrene, pesticides
rs1138272	GSTP1	Tobacco smoke, alcohol
Heavy Metals		
rs11076161	MT1A	Cadmium
rs1695	GSTP1	Arsenic, cadmium, mercury
rs1138272	GSTP1	Mercury
rs713041	GPx4	Mercury
rs1050450	GPx1	Methylmercury, lead, tobacco

SNP ID	Gene	Risk Association
Mycotoxins		
rs2056131	ITGB3	Increased Mold sensitivity
rs28383151	XRCC4	Aflatoxin
rs3734091	XRCC4	Aflatoxin
rs25487	XRCC1	Aflatoxin
rs861539	XRCC3	Aflatoxin
rs7003908	XRCC7	Aflatoxin
rs13181	XPD	Aflatoxin
rs2228001	XPC	Aflatoxin
Xenobiotics		
rs1042157	SULT1A1	Poor xenobiotic detoxification
rs762551	CYP1A2	Poor xenobiotic detoxification
rs1871042	GSTP1	Poor xenobiotic detoxification
rs713041	GPx4	Poor xenobiotic detoxification
rs4680	COMT	Poor xenobiotic detoxification
PFAS		
rs1048943	CYP1A1	PFOS, PFOA
rs1056836	CYP1B1	PFAS

Revised 11/14/2024

Phone: 1 (866) 364-0963
Email: support@vibrant-wellness.com
Visit us online: www.vibrant-wellness.com
3521 Leonard Ct
Santa Clara, CA 95054