

Patient: **SAMPLE**
PATIENT

DOB:

Sex:

MRN:



1765 Toxic Effects CORE Profile - Blood/Urine

Methodology: Gas Chromotography/Mass Spectrometry, LC/Tandem Mass Spectrometry, Colorimetric

Summary of Toxins found at or above the 95th percentile

Blood Assessment

Elevated Volatile Solvents

No elevations found at or above the 95th percentile.

Elevated Polychlorinated Biphenyls (PCBs)

No elevations found at or above the 95th percentile.

Elevated Chlorinated Pesticides

No elevations found at or above the 95th percentile.

Urine Assessment

Elevated Organophosphates

No elevations found at or above the 95th percentile.

Elevated Bisphenol A and Compounds

No elevations found at or above the 95th percentile.

Elevated Phthalates and Parabens

No elevations found at or above the 95th percentile.

*Includes detected values which may not be at or above the 95th percentile.

Cholesterol	186	<=200 mg/dL
Triglycerides	145	35-160 mg/dL
Total Lipids (calc.)	5	g/L

Creatinine = 205 mg/dL

Covaci A, *Science of the Total Environment* 366(2006) 361-366.

Finding a measurable amount of one or more toxins does not mean that adverse health effects are present, therefore no levels are flagged as abnormal.

These levels provide a reference range to determine whether an individual has been exposed to higher levels of toxicants than found in the general population.

1765 Toxic Effects CORE Profile - Blood/Urine

Volatile Solvents
ENVIRONMENTAL

	Results ng/mL	Percentile			
		50th	75th	90th	95th
Volatile Solvents - Whole Blood					
1. Benzene	<DL	<DL	0.06	0.17	0.26
2. Ethylbenzene	<DL	<DL	0.05	0.08	0.11
3. Styrene	<DL	<DL	0.05	0.09	0.12
4. Toluene	<DL	<DL	<DL	0.43	0.68
5. m,p-Xylene	<DL	0.13	0.2	0.28	0.34
6. o-Xylene	<DL	<DL	0.051	0.072	0.09
Percentile values are from the NHANES Fourth National Report on Human Exposure to Environmental Chemicals, Updated Tables, CDC, 2009.					
7. Hexane	199	236	304	380	419
8. 2-Methylpentane	32	52	63	75	88
9. 3-Methylpentane	69	100	116	142	164
10. Iso-octane	<DL	7.6	8.6	9.6	10.2

No national reference ranges are established for hexane, 2- and 3-methylpentane and iso-octane. Percentile ranges are based on patient samples analyzed by Genova Diagnostics.

<DL = less than detection limit
>UL = greater than upper linearity limit

1765 Toxic Effects CORE Profile - Blood/Urine

Chlorinated Pesticides
ENVIRONMENTAL
Chlorinated Pesticides - Serum

	Results ppb	95th Percentile** ppb	Lipid Adjusted Results ng/g lipid	95th Percentile** ng/g lipid
11. DDE	Detected 0.08 - 0.26*	12.1	Detected 16.0 - 52.0*	1,860
12. DDT	Not Detected	0.13	N/A	19.5
13. Dieldrin	Not Detected	0.14	N/A	19.0
14. Heptachlor Epoxide	Not Detected	0.13	N/A	18.9
15. Hexachlorobenzene (HCB)	Not Detected	0.19	N/A	28.9
16. Mirex	Not Detected	0.09	N/A	13.2
17. Oxychlorane	Not Detected	0.27	N/A	37.7
18. trans-Nonachlor	Not Detected	0.47	N/A	68.3
19. Endosulfan Sulfate	Not Detected		N/A	

No national percentiles have been set for endosulfan sulfate. Detected levels are above the Genova Diagnostics limit of detection (0.10 ppb).

PCBs
ENVIRONMENTAL
Polychlorinated Biphenyls (PCBs) - Serum

	Results ppb	95th Percentile** ppb	Lipid Adjusted Results ng/g lipid	95th Percentile** ng/g lipid
Dioxin-like Polychlorinated Biphenyls				
20. PCB 118	Not Detected	0.22	N/A	31.3
21. PCB 126	Not Detected	0.00048	N/A	0.069
22. PCB 156	Not Detected	0.10	N/A	15.3
23. PCB 169	Not Detected	0.00027	N/A	0.041
24. PCB 77	Not Detected		N/A	
No national percentiles have been set for PCB 77. Detected levels are above the Genova Diagnostics limit of detection (0.02 ppb).				
Non-Dioxin-like Polychlorinated Biphenyls				
25. PCB 74	Not Detected	0.15	N/A	22.3
26. PCB 138	Detected 0.06 - 0.18*	0.48	Detected 12.0 - 36.0*	75.3
27. PCB 153	Not Detected	0.62	N/A	97.1
28. PCB 180	Detected 0.08 - 0.26*	0.53	Detected 16.0 - 52.0*	81.5

**95th percentile values are from the NHANES Fourth National Report on Human Exposure to Environmental Chemicals, CDC, 2009.

Organophosphates
 ENVIRONMENTAL

Results mcg/gm creatinine	Percentile			
	50th	75th	90th	95th

Organophosphates - Urine

Item	Results mcg/gm creatinine	50th	75th	90th	95th
29. Dimethylthiophosphate (DMTP)	<DL	1.8	5.2	15.7	30.4
30. Dimethyldithiophosphate (DMDTP)	5.14	<DL	0.5	2.14	5.27
31. Diethylthiophosphate (DETP)	<DL	<DL	0.7	1.47	2.62
32. Diethyldithiophosphate (DEDTP)	<DL	<DL	<DL	<DL	0.41
33. Atrazine	0.052	<DL	<DL	<DL	<DL
34. Atrazine Mercapturate	0.055	<DL	<DL	<DL	0.072

Percentile values for organophosphates are from the NHANES Fourth National Report on Human Exposure to Environmental Chemicals, CDC, 2009.

No national reference ranges are established for atrazine or atrazine mercapturate. Percentile ranges are based on patient samples analyzed by Genova Diagnostics.

Bisphenol A
 ENVIRONMENTAL

Results mcg/gm creatinine	Percentile			
	50th	75th	90th	95th

Bisphenol A (BPA) - Urine

Item	Results mcg/gm creatinine	50th	75th	90th	95th
35. 4-Nonylphenol	1.60	<DL	<DL	1.11	4.69
36. Bisphenol A	<DL	1.95	3.45	6.09	10
37. Triclosan	2	12	50	233	443

Percentile values are from the NHANES Fourth National Report on Human Exposure to Environmental Chemicals, Updated Tables, CDC, Feb 2011.

No national reference ranges are established for 4-Nonylphenol. Percentile ranges are based on patient samples analyzed by Genova Diagnostics.

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 >UL = greater than upper linearity limit

Phthalates and Parabens - Urine

	Results mcg/gm creatinine	Percentile			
		50th	75th	90th	95th
Phthalates - Metabolites of DEHP (Di-2-ethylexyl phthalate)					
38. MEHHP	6	19	41	99	179
39. MEHP	0.8	2.4	5.2	11.8	22.1
40. MEOHP	3	11	22	53	107
41. MEtP	9	115	312	835	1,500
Parabens					
42. Butylparaben	<DL	<DL	1.2	9.8	23.1
43. Ethylparaben	<DL	<DL	5.5	32.7	78.8
44. Methylparaben	35	61	228	535	817
45. Propylparaben	<DL	8	50	138	235

Percentile values are from the NHANES Fourth National Report on Human Exposure to Environmental Chemicals, Updated Tables, CDC, Feb 2011.

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This test has been developed and its performance characteristics determined by Genova Diagnostics, Inc. It has not been cleared by the U.S. Food and Drug Administration.