

3425 Corporate Way Duluth, GA 30096



Patient: SAMPLE

PATIENT DOB: Sex:

MRN:





Summary of Toxins found at or above the 95th percentile								
Blood Assessment			Urine Assessment					
Elevated Volatile No elevations four above the 95th per	d at or	Elevated Polychlorinated Biphenyls (PCBs) No elevations found at or above the 95th percentile.	Elevated Organophosphates No elevations found at or above the 95th percentile.					
Elevated Chorinated Pesticides 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 va	ilues which may not 186	be at or above the 95th percentile. <=200 mg/dL	Creatinine = 205 mg/dL					
riglycerides	145	35-160 mg/dL	_					
otal Lipids (calc.)	5	g/L						

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.

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

Order Number:

1765 Toxic Effects CORE Profile - Blood/Urine



		Results ng/mL	Percentile						
		<u>.</u>		75th	90th	95th			
Volatile Solvents - Whole Blood									
1.	Benzene	<dl td="" ◆<=""><td><dl< td=""><td>0.06</td><td>0.17</td><td>0.26</td><td></td></dl<></td></dl>	<dl< td=""><td>0.06</td><td>0.17</td><td>0.26</td><td></td></dl<>	0.06	0.17	0.26			
١.	Delizelle	\DL \	<dl< td=""><td>0.05</td><td>0.08</td><td>0.11</td><td></td></dl<>	0.05	0.08	0.11			
2.	Ethylbenzene	<dl td="" ◆<=""><td></td><td></td><td></td><td></td><td></td></dl>							
0			<dl< td=""><td>0.05</td><td>0.09</td><td>0.12</td><td></td></dl<>	0.05	0.09	0.12			
3.	Styrene	<dl td="" ◆<=""><td></td><td><dl< td=""><td>0.43</td><td>0.68</td><td></td></dl<></td></dl>		<dl< td=""><td>0.43</td><td>0.68</td><td></td></dl<>	0.43	0.68			
4.	Toluene	<dl< td=""><td></td><td>\DL</td><td>0.43</td><td>0.00</td><td></td></dl<>		\DL	0.43	0.00			
			0.13	0.2	0.28	0.34			
5.	m,p-Xylene	<dl td="" ◆<=""><td></td><td></td><td></td><td></td><td></td></dl>							
6.	o-Xylene	<dl td="" ♦<=""><td><dl< td=""><td>0.051</td><td>0.072</td><td>0.09</td><td></td></dl<></td></dl>	<dl< td=""><td>0.051</td><td>0.072</td><td>0.09</td><td></td></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			
	rickano		52	63	75	88			
8.	2-Methylpentane	32							
9.	2 Mathylpontona	69	100	116	142	164			
٠.	3-Methylpentane	09	7.6	8.6	9.6	10.2			
10.	Iso-octane	<dl td="" ◆<=""><td>7.0</td><td>0.0</td><td>9.0</td><td>10.2</td><td></td></dl>	7.0	0.0	9.0	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

Chlorinated Pesticides ENVIRONMENTAL

Chlorinated Pesticides - Serum								
	Results ppb		•		usted Results /g lipid	95th Percentile**		
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. Oxychlordane	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).

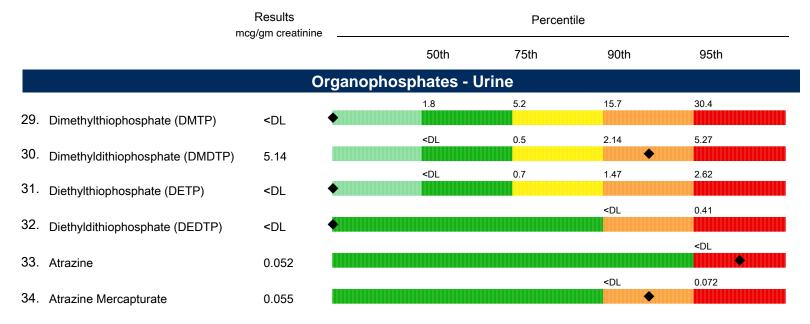
PCBs ENVIRONMENTAL

Polychlorinated Biphenyls (PCBs) - Serum								
	Results ppb		95th Percentile**	** Lipid Adjusted Results		95th Percentile**		
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 Polychlorin	ated 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		

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

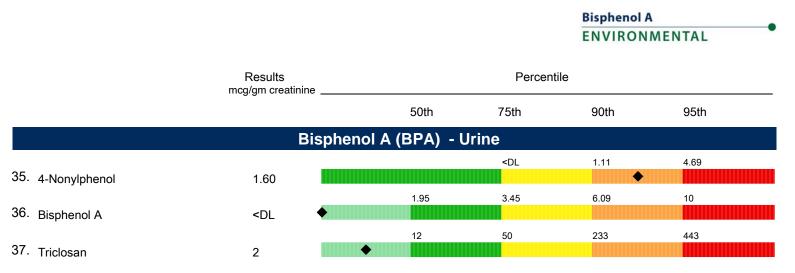
Patient: SAMPLE PATIENT Order Number: 1765 Toxic Effects CORE Profile - Blood/Urine





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.



Percentile values are from the NHANES Fourth National Report on Human Exposure to Environmental Chemicals, Updated Tabes, 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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Phthalates & Parabens ENVIRONMENTAL

Phthalates and Parabens - Urine Percentile Results mcg/gm creatinine 50th 75th 90th 95th Phthalates - Metabolites of DEHP (Di-2-ethylexyl phthalate) 99 179 19 41 38. MEHHP 2.4 22.1 5.2 11.8 39. MEHP 8.0 22 53 107 40. MEOHP 3 115 312 835 1,500 41. MEtP 9 **Parabens** <DL 1.2 9.8 23.1 <DL 42. Butylparaben <DL 5.5 32.7 78.8 43. Ethylparaben <DL 61 228 535 817 Methylparaben 35 235 8 50 138 45. Propylparaben <DL

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

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.

<DL = less than detection limit

>UL = greater than upper linearity limit