

Accession #:
Order #:
Reference #:
Patient:
Date of Birth:

Age: Sex: Reprinted:

Comment:

Date Collected:
Date Received:
Date of Report:

Telephone:

Fax:



1765 Toxic Effects CORE Profile - Blood/Urine

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

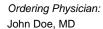
Summary of Toxins found at or above the 95th percentile

Blood Assessment	Urine Assessment
Elevated Volatile Solvents	Elevated Organophosphates
No elevations found at or above the 95th percentile.	No elevations found at or above the 95th percentile.
Elevated Chlorinated Pesticides	Elevated Bisphenol A and compounds
No elevations found at or above the 95th percentile.	No elevations found at or above the 95th percentile.
Elevated Polychlorinated Biphenyls (PCBs)	Elevated Phthalates and Parabens
No elevations found at or above the 95th percentile.	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	Creatinine = 205 mg/dL
Triglycerides 145 35 - 160 mg/dL Total Lipids (calc.)* 5 g/L	
Total Lipids (calc.)* 5 g/L * Covaci A, Science of the Total Environment 366(2006) 361-366.	

For interpretive information, visit www.metametrix.com/ToxicEffectsCore and select the Interpretive Guide from the downloads tab.

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.



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Volatile Solvents - Whole Blood

		Percentile				
	Results ng/mL	50th	75th	90th	95th	
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	
		<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><dl< td=""><td>0.05</td><td>0.09</td><td>0.12</td><td></td></dl<></td></dl<>	<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>Di</td><td>0.43</td><td>0.68</td><td></td></dl<>		Di	0.43	0.68	
4. Toluene	<dl< td=""><td>•</td><td><dl< td=""><td></td><td></td><td></td></dl<></td></dl<>	•	<dl< td=""><td></td><td></td><td></td></dl<>			
5. m,p-Xylene	<dl< td=""><td>0.13</td><td>0.2</td><td>0.28</td><td>0.34</td><td></td></dl<>	0.13	0.2	0.28	0.34	
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, CDC, 2009.

		236	304	380	419	
7. Hexane	199					
		52	63	75	88	
8. 2-Methylpentane	32					
		100	116	142	164	
9. 3-Methylpentane	69					
		7.6	8.6	9.6	10.2	
10. Iso-octane	<dl< td=""><td>•</td><td></td><td></td><td></td><td></td></dl<>	•				

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

<DL = less than detection limit



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Chlorinated Pesticides - Serum

	Results ppb		95th Percentile**	Lipid Adjusted Results ng/g lipid		95th Percentile** ng/g lipid
11. DDE	0.59	Detected	12.1	107.43	Detected	1860
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 quantification (0.34 ppb).



Polychlorinated Biphenyls (PCBs) - Serum

	Results ppb	95th Percentile**	Lipid Adjusted Results ng/g lipid	95th Percentile** ng/g lipid
Dioxin-like Polychlorinate	ed 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 quantification (0.07 ppb).

Non-Dioxin-like Polychlorinated Biphenyls

		•				
25. PCB 74		Not Detected	0.15		N/A	22.3
26. PCB 138	0.21	Detected	0.48	38.24	Detected	75.3
27. PCB 153	0.1 - 0.32*	Detected	0.62	18.2 - 58.3*	Detected	97.1
28. PCB 180	0.39	Detected	0.53	71.02	Detected	81.5

^{*} Patient value falls in this range.

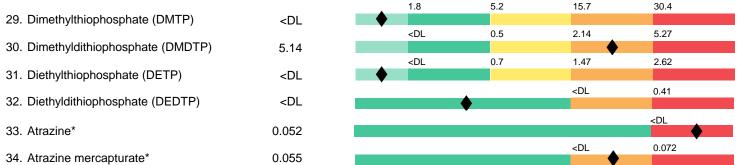
^{** 95}th percentile values are from the NHANES Fourth National Report on Human Exposure to Environmental Chemicals, CDC, 2009.





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Organophosphates - 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 at Genova Diagnostics.



Bisphenol A (BPA) - Urine

		Percentile					
				1 ercentile			
	Results	50th	75th	90th	95th		
	mcg/gm creatinine						
			<dl< td=""><td>1.11</td><td>4.69</td><td></td></dl<>	1.11	4.69		
35. 4-Nonylphenol**	1.6			•			
		1.95	3.45	6.09	10		
36. Bisphenol A	<dl< td=""><td></td><td></td><td></td><td></td><td></td></dl<>						
		12	50	233	443		
37. Triclosan	2						

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 at Genova Diagnostics.

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Phthalates and Parabens - Urine

Phthalates - Metabolites of DEHP (Di-2-ethylhexyl phthalate)

	(,) .)					
		Percentile				
	Results mcg/gm creatinine	50th	75th	90th	95th	
		19	41	99	179	
38. MEHHP	6					
39. MEHP	0.8	2.4	5.2	11.8	22.1	
39. WEHF	0.8	11	22	53	107	
40. MEOHP	3	•				
		115	312	835	1500	
41. MEtP	9					
Parabens						
	_	<dl< td=""><td>1.2</td><td>9.8</td><td>23.1</td></dl<>	1.2	9.8	23.1	
42. Butylparaben	<dl< td=""><td></td><td></td><td></td><td></td></dl<>					
40 Ett. 1		<dl< td=""><td>5.5</td><td>32.7</td><td>78.8</td></dl<>	5.5	32.7	78.8	
43. Ethylparaben	<dl< td=""><td>•</td><td>200</td><td></td><td>0.17</td></dl<>	•	200		0.17	

	<dl< td=""><td>1.2</td><td>9.8</td><td>23.1</td><td></td></dl<>	1.2	9.8	23.1	
<dl< td=""><td></td><td></td><td></td><td></td><td></td></dl<>					
	<dl< td=""><td>5.5</td><td>32.7</td><td>78.8</td><td></td></dl<>	5.5	32.7	78.8	
<dl< td=""><td></td><td></td><td></td><td></td><td></td></dl<>					
	61	228	535	817	
35					
	. 8	50	138	235	
<dl< td=""><td></td><td></td><td></td><td></td><td></td></dl<>					
	<dl 35<="" td=""><td><dl< td=""><td><dl< td=""><td><dl< td=""><td><dl< p=""> <dl< p=""> <dl< p=""> 5.5 32.7 78.8 61 228 535 817 35 8 50 138 235</dl<></dl<></dl<></td></dl<></td></dl<></td></dl<></td></dl>	<dl< td=""><td><dl< td=""><td><dl< td=""><td><dl< p=""> <dl< p=""> <dl< p=""> 5.5 32.7 78.8 61 228 535 817 35 8 50 138 235</dl<></dl<></dl<></td></dl<></td></dl<></td></dl<>	<dl< td=""><td><dl< td=""><td><dl< p=""> <dl< p=""> <dl< p=""> 5.5 32.7 78.8 61 228 535 817 35 8 50 138 235</dl<></dl<></dl<></td></dl<></td></dl<>	<dl< td=""><td><dl< p=""> <dl< p=""> <dl< p=""> 5.5 32.7 78.8 61 228 535 817 35 8 50 138 235</dl<></dl<></dl<></td></dl<>	<dl< p=""> <dl< p=""> <dl< p=""> 5.5 32.7 78.8 61 228 535 817 35 8 50 138 235</dl<></dl<></dl<>

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

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