



3425 Corporate Way
Duluth, GA 30096



Patient: **PETRA MORUM**
DOB: February 13, 1975
Sex: F
MRN: 1232740643

Order Number: K6140567
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Enviromental Health Cntr of Dallas
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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
<p>Elevated Volatile Solvents</p> <ul style="list-style-type: none"> Ethylbenzene Styrene m,p-Xylene o-Xylene <p>Elevated Chorinated Pesticides</p> <p>No elevations found at or above the 95th percentile.</p>	<p>Elevated Polychlorinated Biphenyls (PCBs)</p> <p>No elevations found at or above the 95th percentile.</p>	<p>Elevated Organophosphates</p> <p>No elevations found at or above the 95th percentile.</p> <p>Elevated Bisphenol A and Compounds</p> <p>No elevations found at or above the 95th percentile.</p> <p>Elevated Phthalates and Parabens</p> <p>No elevations found at or above the 95th percentile.</p>
<p>*Includes detected values which may not be at or above the 95th percentile.</p>		
Cholesterol	140	<=200 mg/dL
Triglycerides	36	35-160 mg/dL
Total Lipids (calc.)	4	g/L
Covaci A, Science of the Total Environment 366(2006) 361-366.		Creatinine = 159 mg/dL

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.

1795 Toxic Effects CORE Profile - Blood/Urine

Volatile Solvents
ENVIRONMENTAL

	Results ng/mL	Percentile			
		50th	75th	90th	95th
Volatile Solvents - Whole Blood					
1. Benzene	0.25	<DL	0.06	0.17	0.26
2. Ethylbenzene	2.43	<DL	0.05	0.08	0.11
3. Styrene	0.21	<DL	0.05	0.09	0.12
4. Toluene	<DL	<DL	<DL	0.43	0.68
5. m,p-Xylene	3.73	0.13	0.2	0.28	0.34
6. o-Xylene	1.91	<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	49	236	304	380	419
8. 2-Methylpentane	8	52	63	75	88
9. 3-Methylpentane	21	100	116	142	164
10. Iso-octane	1.3	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

1795 Toxic Effects CORE Profile - Blood/Urine

Chlorinated Pesticides
ENVIRONMENTAL

Chlorinated Pesticides - Serum				
	Results	95th Percentile**	Lipid Adjusted Results	95th Percentile*
	ppb	ppb	ng/g lipid	ng/g lipid
11. DDE	Detected 1.04	12.1	Detected 294.9	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	95th Percentile**	Lipid Adjusted Results	95th Percentile*
	ppb	ppb	ng/g lipid	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	Not Detected	0.48	N/A	75.3
27. PCB 153	Detected 0.10 - 0.32*	0.62	Detected 25.0 - 80.0*	97.1
28. PCB 180	Detected 0.30	0.53	Detected 85.1	81.5

*Patient value falls within this range

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

1795 Toxic Effects CORE Profile - Blood/Urine

Organophosphates
ENVIRONMENTAL

	Results mcg/gm creatinine		Percentile			
			50th	75th	90th	95th
Organophosphates - Urine						
29. Dimethylthiophosphate (DMTP)	<DL	◆	1.8	5.2	15.7	30.4
30. Dimethyldithiophosphate (DMDTP)	<DL	◆	<DL	0.5	2.14	5.27
31. Diethylthiophosphate (DETP)	<DL	◆	<DL	0.7	1.47	2.62
32. Diethyldithiophosphate (DEDTP)	<DL	◆			<DL	0.41
33. Atrazine	<DL	◆				<DL
34. Atrazine Mercapturate	<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						
35. 4-Nonylphenol	<DL	◆		<DL	1.11	4.69
36. Bisphenol A	0.70	◆	1.95	3.45	6.09	10
37. Triclosan	4	◆	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.

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