

TEST PATIENT

TEST PHYSICIAN



GUa d`Y`HYghBUa Y
Sex : :
DUHy Collected : 00-00-0000
111 H9GH`ROAD`TEST SUBURB
@AB =8: 00000000 UR#:0000000

DR JOHN DOE
111 CLINIC STF 99H
7@B=7`GI 6I F 6`J`' \$\$\$

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GENOVA DIAGNOSTICS

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

No elevations found at or above the 95th percentile.

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 Chlorinated 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

MEHHP
MEHP
MEOHP

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

Cholesterol	166	<=200 mg/dL
Triglycerides	98	35-160 mg/dL
Total Lipids (calc.)	5	g/L

Creatinine = 80 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



	Results ng/mL	Percentile			
		50th	75th	90th	95th
Volatile Solvents - Whole Blood					
1. Benzene	0.08	<DL	0.06	0.17	0.26
2. Ethylbenzene	0.08	<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	0.16	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	130	236	304	380	419
8. 2-Methylpentane	20	52	63	75	88
9. 3-Methylpentane	51	100	116	142	164
10. Iso-octane	1.4	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	Not Detected	12.1	N/A	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	Not Detected	0.48	N/A	75.3
27. PCB 153	Not Detected	0.62	N/A	97.1
28. PCB 180	Not Detected	0.53	N/A	81.5

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

1765 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	6.98		1.95	3.45	6.09	10
37. Triclosan	<DL	◆	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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1765 Toxic Effects CORE Profile - Blood/Urine

Phthalates and Parabens - Urine

	Results mcg/gm creatinine	Percentile			
		50th	75th	90th	95th
Phthalates - Metabolites of DEHP (Di-2-ethylexyl phthalate)					
38. MEHHP	385	19	41	99	179
39. MEHP	>UL	2.4	5.2	11.8	22.1
40. MEOHP	161	11	22	53	107
41. MEtP	33	115	312	835	1,500
Parabens					
42. Butylparaben	<DL	<DL	1.2	9.8	23.1
43. Ethylparaben	1.0	<DL	5.5	32.7	78.8
44. Methylparaben	5	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.