

Toxic Effects
profiles.

1760 Chlorinated Pesticides & PCB Profile - Serum

Methodology: Gas Chromatography/Mass Spectrometry

	Results ppb	95th Percentile** ppb	Lipid Adjusted Results ng/g lipid	95th Percentile** ng/g lipid
Chlorinated Pesticides				
1. DDE	Detected 0.3	12.10	Detected 74.5	1860
2. DDT	Not Detected	0.13	N/A	19.5
3. Dieldrin	Not Detected	0.14	N/A	19.0
4. Heptachlor Epoxide	Not Detected	0.13	N/A	18.9
5. Hexachlorobenzene (HCB)	Not Detected	0.19	N/A	28.9
6. Mirex	Not Detected	0.09	N/A	13.2
7. Oxychlorane	Not Detected	0.27	N/A	37.7
8. trans-Nonachlor	Not Detected	0.47	N/A	68.3
9. Endosulfan Sulfate†	Not Detected		N/A	
Polychlorinated Biphenyls (PCBs)				
Dioxin-like Polychlorinated Biphenyls				
10. PCB 118	Not Detected	0.22	N/A	31.3
11. PCB 126	Not Detected	0.00048	N/A	0.069
12. PCB 156	Not Detected	0.10	N/A	15.3
13. PCB 169	Not Detected	0.00027	N/A	0.041
Non-Dioxin-like Polychlorinated Biphenyls				
14. PCB 74	Not Detected	0.15	N/A	22.3
15. PCB 138	Detected 0.06 - 0.18*	0.48	Detected 14.9 - 44.7*	75.3
16. PCB 153	Detected 0.1 - 0.32*	0.62	Detected 24.8 - 79.5*	97.1
17. PCB 180	Not Detected	0.53	N/A	81.5
18. PCB 77‡	Not Detected		N/A	



	Results ppb	95th Percentile** ppb	Lipid Adjusted Results ng/g lipid	95th Percentile** ng/g lipid
Cholesterol	92.00	<= 200	mg/dL	
Triglycerides	114	35 - 160	mg/dL	
Total Lipids (calc.)††	4		g/L	

* Patient value falls in this range.

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

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.

†No national percentiles have been set for Endosulfan Sulfate. Detected levels are above the Genova Diagnostics limit of quantification (0.34 ppb).

‡No national percentiles have been set for PCB 77. Detected levels are above the Genova Diagnostics limit of quantification (0.07 ppb).

†† Covaci A, Voorspoels S, Thomsen C, van Bavel B., Neels H. Evaluation of total lipids using enzymatic methods for the normalization of persistent organic pollutant levels in serum. *Science of the Total Environment* 366(2006) 361-366.

For interpretive information on chlorinated pesticides, visit www.metametrix.com/cp and select the Interpretive Guide from the downloads tab.

For interpretive information on polychlorinated biphenyls, visit www.metametrix.com/pcbs and select the Interpretive Guide from the downloads tab.