

### Human Biomonitoring (HBM) values for cadmium, mercury, pentachlorophenol and DEHP in urine and blood

Parameter and Matrix [bibliographical data]	Population group / period of life	HBM I value	HBM II value
<b>Lead</b> in <b>blood</b> [1996, 2002, 2009]	Children $\leq$ 12 years and females of a reproductive age  other persons	No longer valid	No longer valid
<b>Cadmium</b> in <b>urine</b> [1998]	Children, adolescence and adults $\leq$ 25 years	1 $\mu\text{g/g Crea.}$	3 $\mu\text{g/g Crea.}$
	Adults > 25 years	2 $\mu\text{g/g Crea.}$	5 $\mu\text{g/g Crea.}$
<b>Mercury</b> in <b>urine</b> [1999, 2009]	Children and adults	5 $\mu\text{g/g Crea.}$ 7 $\mu\text{g/l}$	20 $\mu\text{g/g Crea.}$ 25 $\mu\text{g/l}$
<b>Mercury</b> in <b>blood</b> [1999, 2009]	Children and adults* * derived from females in reproductive age. The use is recommended for other groups.	5 $\mu\text{g/l}$	15 $\mu\text{g/l}$
<b>Pentachlorophenol</b> in <b>serum</b> [1997]	General population	40 $\mu\text{g/l}$	70 $\mu\text{g/l}$
<b>Pentachloro- phenol</b> in <b>urine</b> [1997]	General population	20 $\mu\text{g/g Crea.}$ 25 $\mu\text{g/l}$	30 $\mu\text{g/g Crea.}$ 40 $\mu\text{g/l}$
<b>Sum of the DEHP metabolites 5oxo- and 5OH-MEHP</b> in <b>urine</b> [2007]	Children aged 6 to 13	500 $\mu\text{g/l}$	/
	Women of childbearing age	300 $\mu\text{g/l}$	/
	Males 14 years of age and older and remaining general population	750 $\mu\text{g/l}$	/
[xy] bibliographical data see publication: <a href="http://www.uba.de/gesundheit-e/publikationen/index.htm#khh">http://www.uba.de/gesundheit-e/publikationen/index.htm#khh</a>			