

Human Biomonitoring (HBM) values

for cadmium, mercury, thallium, pentachlorophenol, and DEHP in urine or blood

Parameter and Matrix [bibliographical data]	Population group / period of life	HBM I value	HBM II value
Lead in blood [1996, 2002, 2009]	Children \leq 12 years and females of a reproductive age other persons	suspended	suspended
Cadmium in urine [1998, 2011]	Children, adolescence	0.5 $\mu\text{g/l}$	2 $\mu\text{g/l}$
	Adults	1 $\mu\text{g/l}$	4 $\mu\text{g/l}$
Mercury in urine [1999, 2009]	Children and adults	7 $\mu\text{g/l}$ 5 $\mu\text{g/g Crea.}$	25 $\mu\text{g/l}$ 20 $\mu\text{g/g Crea.}$
Mercury in blood [1999, 2009]	Children and adults* * derived from females in reproductive age. The use is recommended for other groups.	5 $\mu\text{g/l}$	15 $\mu\text{g/l}$
Thallium in urine [2011]	General population	5 $\mu\text{g/l}$	/
Pentachlorophenol in serum [1997]	General population	40 $\mu\text{g/l}$	70 $\mu\text{g/l}$
Pentachlorophenol in urine [1997]	General population	25 $\mu\text{g/l}$ 20 $\mu\text{g/g Crea.}$	40 $\mu\text{g/l}$ 30 $\mu\text{g/g Crea.}$
Sum of the DEHP metabolites 5oxo- and 5OH-MEHP in urine [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: http://www.uba.de/gesundheit-e/publikationen/index.htm#khh Last update: 01/2011			