

Year of selection	Substance name (CAS-No.)	Biomarker	Method; Limit of Quantification (LOQ)	Volume
2010	DINCH 1,2-Cyclohexane dicarboxylic acid diisononyl ester (166412-78-8) Isomere mixture)	OH-MINCH cx-MINCH	Online-SPE-LC-MS/MS LOQ: both 0,05 µg/l	0,3 mL urine
	DPHP Di(2-propyl heptyl)phthalate (53306-54-0)	oxo-MPHP OH-MPHP cx-MPHxP	GC/HRMS LOQ: 0,25 µg/L; LOQ: 0,3 µg/L; LOQ: 0,15 µg/L	1,0 mL urine
	HBCDD Hexabromocyclododecane (25637-99-4)	α-HBCD β-HBCD γ-HBCD	UPLC-MS/MS LOQ, all three: 0,03 µg/L	1,0 mL Plasma
	4-Nonylphenol, branched (84852-15-3)	4-Nonylphenol, branched	UPLC-MS/MS LOQ: 1,0 µg/L	0,5 mL Urin One shot for Nonyl- and Octyl-phenol analysis
	4-tert-Octylphenol (140-66-9)	4-tert-Octylphenol	UPLC-MS/MS LOQ: 1,0 µg/L	

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2011	4-MBC 3-(4-Methylbenzylidene) – camphor (36861-47-9)	MBC-cx (=3-4CBC) 3-(4-Carboxybenzylidene) camphor MBC-OH (=3-4CBHC) 3-(4-Carboxybenzylidene)-6-hydroxycamphor	UPLC-MS/MS LOQ: 0,15 µg/l LOQ: 0,3 µg/l	0,5 mL urine
	MDI Methylenediphenyl-diisocyanate (101-68-8 und 26447-40-5)	MDA-Val-Hyd 5-isopropyl-3-[4-(4-aminobenzyl)phenyl]hydantoin (Hem adduct)	GC-HRMS-NCI LOQ : 0,05 ng MDA-Val-Hyd/g Globin	5 mL EDTA-stabilized blood
	2-MBT 2-Mercaptobenzothiazole (149-30-4)	MBT	UPLC-MS/MS LOQ: 1,0 µg/L	0,5 mL urine
	NMP N-Methyl-2-pyrrolidone (872-50-4)	5-HNMP (5-Hydroxy-N-Methyl-2-pyrrolidone) 2-HMSI (2-Hydroxy-N-methylsuccinimide)	GC-EI-MS/MS LOQ, both: 2,5 µg/L	1,0 mL urine One shot for NMP and NEP analysis
	NEP N-Ethyl-2-pyrrolidone (2687-91-4)	5-HNEP (5-Hydroxy-N-Ethylpyrrolidone) 2-HESI (2-Hydroxy-N-ethylsuccinimide)	GC-EI-MS/MS LOQ, both: 2,5 µg/L	

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2012	CMI/MI (3:1) 5-Chloro-2-methyl-3-isothiazolinone / 2-Methylisothiazol-3(2H)-one (55965-84-9)	NMMA (N-methyl-malonamic acid (3-(methylamino)-3-oxopropanoic acid))	GC/EI/MS/MS LOQ: 0,5 µg/L	0,1 mL urine
	Geraniol (106-24-1)	8-Carboxygeraniol Hildebrandt's acid 3-Hydroxy-citronellic acid Geranic acid	UPLC-MS/MS LOQ: 1,50 µg/L LOQ: 2,65 µg/L LOQ: 2,66 µg/L LOQ: 1,80 µg/L	1,0 mL urine
2013	TOTM Tri(2-ethylhexyl) trimellitat (3319-31-1)	1-MEHTM (1-mono-(2-ethylhexyl) trimellitat) 2-MEHTM (2-mono-(2-ethylhexyl) trimellitat) 5OH-1-MEHTM (1-mono-(2-ethyl-5-hydroxyhexyl) trimellitat) 5OH-2-MEHTM (2-mono-(2-ethyl-5-hydroxyhexyl) trimellitat) 5cx-1-MEPTM (1-mono-(2-ethyl-5-Carboxypentyl) trimellitat)	LC-MS/MS LOQ: 4,6 µg/L LOQ: 3,1 µg/L LOQ: 2,6 µg/L LOQ: 1,5 µg/L LOQ: 1,6 µg/L	1,0 mL urine
	DEHTP (or DEHT, DOTP) Di(2-ethylhexyl)terephthalate (6422-86-2)	5cx-MEPTP 5OH-MEHTP 2cx-MMHTP 5oxo-MEHTP	Online-SPE-LC-MS/MS LOQ: 0,2 µL LOQ: 0,3 µL LOQ: 0,4 µL LOQ: 0,2 µL	0,3 mL urine
	BHT 2,6 Di-tert-butyl-p-cresol (Butylated Hydroxy-Toluene) (128-37-0)	BHT acid	LC-MS/MS LOQ: 0,2µL	0,5 mL urine

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2014	DINA Diisononyladipate (33703-08-1)	OH-MINA (Mono(hydroxy-isononyl)adipate) oxo-MINA (Mono(oxo-isononyl)adipate) cx-MIOA (Mono(carboxy-isooctyl)adipate)	Online-SPE-LC-MS/MS LOQ: 0,3 µg/L LOQ: 0,3 µg/L LOQ: 0,6 µg/L	0,3 mL Urin
	DEHA Di-(2-ethylhexyl)adipate 103-23-1	5OH-MEHA (mono-2-ethyl-5-hydroxyhexyl adipate) 5oxo-MEHA (mono-2-ethyl-5-oxohexyl adipate), 5cx-MEPA (mono-5-carboxy-2-ethylpentyl adipate)	online-SPE-HPLC-MS/MS LOQ: 0.05 µg/L LOQ: 0.1 µg/L LOQ: 0.05 µg/L	0,3 mL urine
	OC Octocrylene, 2-Ethylhexyl 2-cyano-3,3-diphenyl-2-propenoate (6197-30-4)	CPAA (2-cyano-3,3-diphenyl-acrylic acid) DOCCA (2-(carboxymethyl)butyl 2-cyano-3,3-diphenyl Acrylate) 5OH-OC (2-ethyl-5-hydroxyhexyl 2-cyano-3,3-diphenyl acrylate)	Online-SPE-LC-MS/MS LOQ: 0,5 µg/L LOQ: 0,05 µg/L LOQ: 0,015 µg/L	0,3 mL urine
	Lysmeral 2-(4-tert-Butylbenzyl)propionaldehyde (80-54-6)	TBBA (tert-butylbenzoic acid) Lysmerylic acid Lysmerol OH-Lysmerylic acid	LC-MS/MS LOQ: 0,42 µg/L; LOQ: 0,36 µg/L LOQ: 0,10 µg/L LOQ: 0,45 µg/L	1,0 mL urine

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2015	EHS 2-Ethylhexylsalicylate (Octisalate) (118-60-5)	5OH-EHS (2-ethyl-5-hydroxyhexyl 2-hydroxybenzoate) 5oxo-EHS (2-ethyl-5-oxohexyl 2-hydroxybenzoate) 5cx-EHS (5-(((2-hydroxybenzoyl)oxy)methyl)heptanoic acid)	online-SPE-HPLC-MS/MS LOQ: 0,05 µg/L LOQ: 0,15 µg/L LOQ: 0,01 µg/L	0,3 mL urine
	Climbazole 1-(4-Chlorophenoxy)-1-(imidazol-1-yl)3,3-dimethylbutan-2-one (38083-17-9)	Cx-OH-Clim (Carboxy-Hydroxy-Climbazole) (OH)₂-Clim (Dihydroxy-Climbazole) →always as Diastereomeric mixtures (1:1)	UHPLC-MS/MS LOD: 0,5 µg/L LOQ: 1,5 µg/L LOD: 0,5 µg/L LOQ: 1,5 µg/L	0,5 mL Urin
	UV 328 2-(2H-Benzotriazol-2-yl)-4,6-di-tert-pentylphenol (25973-55-1)	UV 328 UV 328-4/3-CO UV 328-6/3-CO UV 328-4/3-OH UV 328-6/3-OH UV 328- BT-OH UV 328-4/3-CO-6/3-OH	GC-MS/MS LOD: each 0,1 µg/L LOQ: 0,3 µg/L 0,4 µg/L 0,5 µg/L 0,3 µg/L 0,4 µg/L 0,4 µg/L 0,3 µg/L	1,0 mL Urin
	7-Hydroxycitronellal (107-75-5)	7-Hydroxycitronellylic acid	UPLC-MS/MS LOQ: 0,5 µL	1,0 mL urine

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2016	TDCPP Tris(2-chlor-1-(chlormethyl)ethyl)phosphat (13674-87-8)	BDCPP (Bis(1,3-dichloropropyl)phosphat)	LC-MS/MS LOQ: 0,2µg/L	5,0 mL urine
	DnBA Di-n-butyladipate (105-99-7)	MnBA (Mono-n-butyladipate), 3OH-MnBA (3-Hydroxy-mono-n-butyladipate) 3cx-MnPrA (3-Carboxy-mono-n-propyladipate)	HPLC-ESI-QqQ-MS/MS BG: 0,05 µg/L BG: 0,1 µg/L BG: 0,5 µg/L	0,3 mL Urin
	DHHB Uvinul A Plus Diethylamino-hydroxybenzoyl-hexyl-benzoat (302776-68-7)	AHB (Amino-hydroxybenzoyl-benzoessäure) EHB (Ethylamino-hydroxybenzoyl-hexyl-benzoessäure) DHB (Diethylamino-hydroxybenzoyl-benzoessäure)	LC-MS/MS LOQ: 0,1 µg/L LOQ: 0,1 µg/L LOQ: 0,05 µg/L	1,0 mL urine
2017	Ethoxyquin 6-ethoxy-2,2,4-trimethyl-1,2-dihydroquinoline (91-53-2)	EQI 2,2,4-trimethyl-6(2H)-quinoline	UHPLC-MS/MS LOQ: 0,03 µg/L	3,0 mL Urin