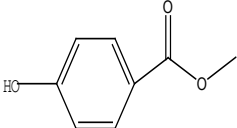
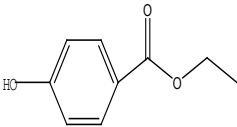
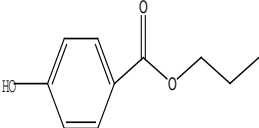
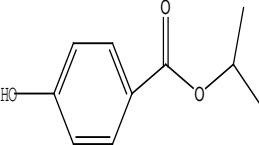
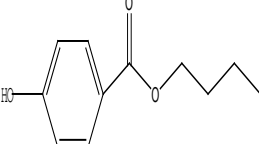
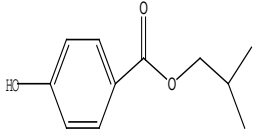
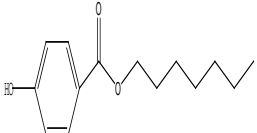
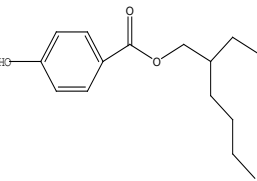


Supporting Information

Table S1 Compound specific parameters for the eight parabens included in the method

Analytes	CAS.NO.	Structure	Purity (%)	Time segment (min)	Retention time(min)	Parent ion (m/z)	Qualitative ion (m/z)	Fragmentor (V)	Collision energy (CE)	ADI (mg/kg)
Methylparaben (MP)	99-76-3		99.5	1(0-6.5)	4.285	151	92*,136	100	20	0-10
Ethylparaben (EP)	120-47-8		99.5		5.611	165	92*,137	100	20	0-10
Propylparaben (PP)	94-13-3		99.5	2(6.5-9)	7.585	179	92*,137	100	20	0-10
Isopropylparaben (IPP)	4191-73-5		99.2		7.132	179	93*,137	100	17	0-10
Butylparaben (BP)	94-26-8		99.0	3(9-11)	9.846	193	92*,137	110	20	0-10

Isobutyl paraben (IBP)	4247-02-3		99.0	9.610	193	92★,136	110	20	0-10
Heptyl paraben (HP)	1085-12-7		98.0	14.930	235	92★,137	135	23	—
Octyl 4-hydroxybenzoate (OHB)	5153-25-3		98.0	15.246	249	92★,136	135	27	—

4(11-19)

Productor ion with ★ is quantitative ion. A dash (-) denotes that no definite dates were available.

Table S2 Recoveries of eight parabens in food simulants (n=6)

Analyte	distilled water			3 % acetic acid,			10 % ethanol			olive oil		
	Add amount / μg	Recovery /%	RSD /%	Add amount / μg	Recovery /%	RSD /%	Add amount / μg	Recovery /%	RSD /%	Add amount / μg	Recovery /%	RSD /%
MP	0.004	104.59	3.93	0.004	97.03	3.71	0.004	77.25	12.97	0.01	98.01	1.11
										0.10	79.33	1.98
										0.20	84.02	0.57
EP	0.004	92.57	2.89	0.004	89.09	2.87	0.004	88.73	11.12	0.01	95.93	2.39
										0.10	83.79	0.29
										0.20	82.44	0.49
PP	0.004	100.66	2.32	0.004	108.36	2.66	0.004	73.42	9.76	0.01	107.48	1.32
										0.10	99.99	1.31
										0.20	96.28	1.36
IPP	0.004	76.68	8.48	0.004	106.67	3.73	0.004	75.45	8.50	0.01	91.51	1.82
										0.10	86.09	0.99
										0.20	85.39	1.25
IBP	0.004	105.03	3.19	0.004	107.30	2.49	0.004	76.42	6.30	0.01	104.97	0.62
										0.10	97.03	1.00
										0.20	94.97	0.81
BP	0.004	111.67	1.90	0.004	107.22	3.12	0.004	71.16	5.78	0.01	108.64	0.68
										0.10	104.53	0.66
										0.20	99.05	1.02
HP	0.004	127.83	3.64	0.004	108.11	1.01	0.004	107.19	7.42	0.01	107.90	2.16
										0.10	76.24	2.28
										0.20	91.39	0.39

										0.01	108.81	5.40
OHB	0.004	126.97	2.90	0.004	117.63	1.20	0.004	115.42	8.41	0.10	76.11	0.41
										0.20	86.98	0.59
