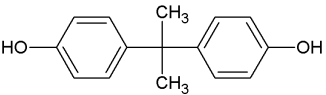
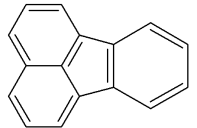
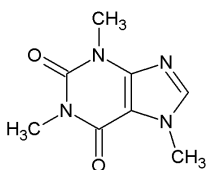
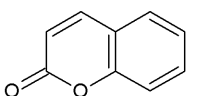
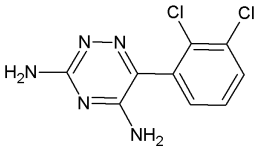
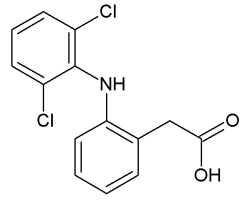
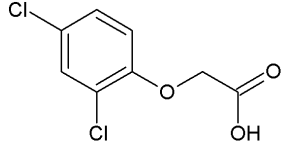
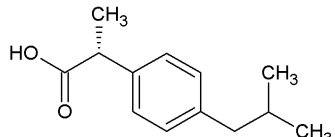


Supplementary Material

1 Test Chemicals

Supplementary Table S1. Test chemicals of this study. IS – internal standard.

Chemical	CAS No.	Purity	Provider	Chemical structure
Bisphenol A	80-05-7	≥ 99%	Sigma-Aldrich	
Fluoranthene	206-44-0	98%	Sigma-Aldrich	
Caffeine	58-08-2	≥ 99%	Sigma-Aldrich	
Coumarin	91-64-5	≥ 99%	Sigma-Aldrich	
Lamotrigine	84057-84-1	≥ 98%	Cayman Chemical Company	
Diclofenac (sodium salt)	15307-79-6	≥ 99%	Cayman Chemical Company	
2,4-Dichlorophenoxyacetic acid (2,4-D)	94-75-7	≥ 97%	Cayman Chemical Company	
Ibuprofen	15687-27-1	≥ 99.6%	Euro OTC Pharma	

Supplementary Table S1 continued.

(S)-Naproxen	22204-53-1	≥ 99%	Cayman Chemical Company	
Toraseamide	56211-40-6	≥ 98%	Sigma-Aldrich	
Warfarin	81-81-2	≥ 99%	Sigma-Aldrich	
Genistein	446-72-0	≥ 98%	C. Roth	
1-Naphthalene acetic acid (IS)	86-87-3	≥ 95%	Fluka	

2 Mixture Design

Supplementary Table S2. Composition and dosing of mixtures.

Mix 1				
(12 chemicals, equipotent IC ₁₀ ratios)				
Chemical	IC ₁₀ [M]	Contribution to Mix IC ₁₀ [M]	Highest concentration to be dosed (2 x IC ₁₀) [M]	Final dosing concentration [M]
Bisphenol A	7.20×10 ⁻⁵	6.00×10 ⁻⁶	1.20×10 ⁻⁵	1.19×10 ⁻⁵
Fluoranthene	8.50×10 ⁻⁵	7.08×10 ⁻⁶	1.42×10 ⁻⁵	1.42×10 ⁻⁵
Caffeine	3.68×10 ⁻³	3.07×10 ⁻⁴	6.13×10 ⁻⁴	5.79×10 ⁻⁴
Coumarin	2.30×10 ⁻³	1.92×10 ⁻⁴	3.83×10 ⁻⁴	3.92×10 ⁻⁴
Lamotrigine	8.63×10 ⁻⁴	7.19×10 ⁻⁵	1.44×10 ⁻⁴	1.30×10 ⁻⁴
Diclofenac	8.94×10 ⁻⁵	7.45×10 ⁻⁶	1.49×10 ⁻⁵	1.01×10 ⁻⁵
2,4-D	3.16×10 ⁻⁴	2.63×10 ⁻⁵	5.27×10 ⁻⁵	5.08×10 ⁻⁵
Ibuprofen	2.63×10 ⁻⁴	2.19×10 ⁻⁵	4.38×10 ⁻⁵	3.65×10 ⁻⁵
Naproxen	4.11×10 ⁻⁴	3.43×10 ⁻⁵	6.85×10 ⁻⁵	6.06×10 ⁻⁵
Toraseamide	1.10×10 ⁻³	9.17×10 ⁻⁵	1.83×10 ⁻⁵	1.25×10 ⁻⁴
Warfarin	2.15×10 ⁻⁴	1.79×10 ⁻⁵	3.58×10 ⁻⁵	3.19×10 ⁻⁵
Genistein	1.58×10 ⁻⁴	1.32×10 ⁻⁵	2.63×10 ⁻⁵	2.25×10 ⁻⁵
Total		7.96×10⁻⁴	1.59×10⁻³	1.46×10⁻³

Supplementary Table S2 continued.

Mix 2				
(4 active chemicals, equipotent EC _{IR1.5} ratios)				
Chemical	EC_{IR1.5} [M]	Contribution to Mix EC_{IR1.5} [M]	Highest concentration to be dosed (2 x EC_{IR1.5}) [M]	Final dosing concentration [M]
Bisphenol A	4.90×10 ⁻⁵	1.23×10 ⁻⁵	2.45×10 ⁻⁵	2.47×10 ⁻⁵
Fluoranthene	5.60×10 ⁻⁵	1.40×10 ⁻⁵	2.80×10 ⁻⁵	2.78×10 ⁻⁵
Coumarin	5.60×10 ⁻⁴	1.40×10 ⁻⁴	2.80×10 ⁻⁴	2.80×10 ⁻⁴
Genistein	2.36×10 ⁻⁵	5.90×10 ⁻⁶	1.18×10 ⁻⁵	1.18×10 ⁻⁵
Total		1.72×10⁻⁴	3.44×10⁻⁴	3.45×10⁻⁴
Mix 3				
(8 active/inactive chemicals, equipotent IC ₁₀ ratios)				
Chemical	IC₁₀ [M]	Contribution to Mix IC₁₀ [M]	Highest concentration to be dosed (2 x IC₁₀) [M]	Final dosing concentration [M]
Bisphenol A	7.20×10 ⁻⁵	9.00×10 ⁻⁶	1.80×10 ⁻⁵	1.77×10 ⁻⁵
Fluoranthene	8.50×10 ⁻⁵	1.06×10 ⁻⁵	2.13×10 ⁻⁵	2.12×10 ⁻⁵
Caffeine	3.68×10 ⁻³	4.60×10 ⁻⁴	9.20×10 ⁻⁴	8.68×10 ⁻⁴
Coumarin	2.30×10 ⁻³	2.88×10 ⁻⁴	5.75×10 ⁻⁴	5.86×10 ⁻⁴
Lamotrigine	8.63×10 ⁻⁴	1.08×10 ⁻⁴	2.16×10 ⁻⁴	1.95×10 ⁻⁴
Diclofenac	8.94×10 ⁻⁵	1.12×10 ⁻⁵	2.24×10 ⁻⁵	1.51×10 ⁻⁵
Torsemide	1.10×10 ⁻³	1.38×10 ⁻⁴	2.75×10 ⁻⁴	1.87×10 ⁻⁴
Genistein	1.58×10 ⁻⁴	1.98×10 ⁻⁵	3.95×10 ⁻⁵	3.38×10 ⁻⁵
Total		1.04×10⁻³	2.09×10⁻³	1.92×10⁻³

3 Instrumental Analysis

Supplementary Table S3. LC-MS/MS method details. Source conditions were set as following: gas temperature 300 °C, gas flow 13 L/min, nebulizer 50 psi, capillary 4000 V. Cell Accelerator voltage: 4 V.

Chemical	ESI	Precursor [m/z]	Product ions [m/z]	Collision energy [V]	Fragmentor [V]
Caffeine	+	195	138/110.1	17/17	140
Coumarin	+	147	103/91	17/25	110
Lamotrigine	+	256	210/145	26/45	150
Diclofenac	-	294	249.8/213.9	9/21	80
2,4-D	-	218.96	160.9/124.9	12/28	80
Ibuprofen	-	205.12	161.1	4	80
Torsemide	+	349	264/183	12/36	120
Warfarin	+	309.12	250.9/162.9	16/12	120
Genistein	+	271.06	152.9/91	28/40	170
1-Naphthalene acetic acid (IS)	+	187.1	141.1/115	4/40	60

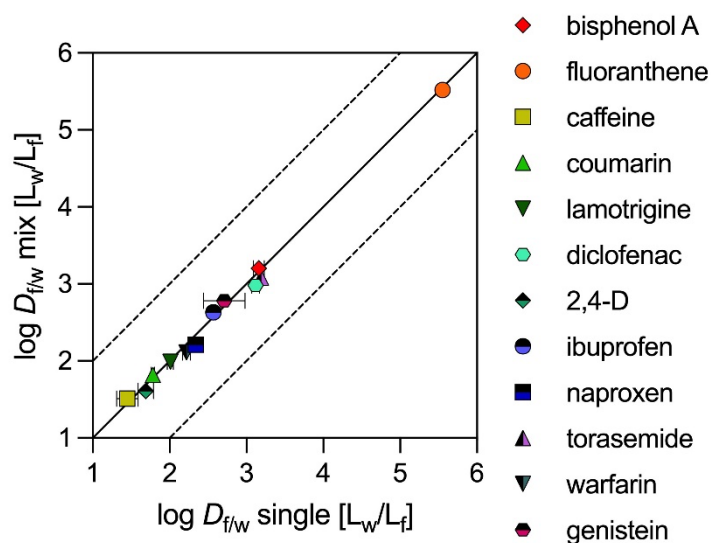
Supplementary Table S4. LC-FLD method details.

Chemical	Retention time [min]	Wavelength excitation/emission [nm]	LOQ [ng/mL]
Bisphenol A	1.71	230/310	25
Fluoranthene	4.98	230/455	2
(S)-Naproxen	2.13	230/355	5
1-Naphthalene acetic acid (IS)	1.33	230/340	-

4 Comparison of SPME of individual chemicals and mixtures

Supplementary Table S5. Fiber-water distribution ratios ($D_{f/w}$) of chemicals tested individually and tested in a 12-component mixture.

Chemical	Individual chemical			12-Component mixture		
	$\log D_{f/w} [L_w/L_f]$	SD	n	$\log D_{f/w} [L_w/L_f]$	SD	n
Bisphenol A	3.16	0.07	3	3.20	0.04	3
Fluoranthene	5.55	0.02	3	5.52	0.06	3
Caffeine	1.45	0.14	3	1.51	0.10	3
Coumarin	1.78	0.02	3	1.82	0.04	3
Lamotrigine	2.01	0.04	3	1.99	0.02	3
Diclofenac	3.12	0.05	3	2.98	0.02	3
2,4-D	1.69	0.10	3	1.61	0.09	3
Ibuprofen	2.57	0.03	3	2.63	0.08	3
Naproxen	2.34	0.06	3	2.21	0.09	3
Torsemide	3.19	0.04	3	3.08	0.05	3
Warfarin	2.22	0.05	3	2.11	0.02	3
Genistein	2.71	0.27	3	2.78	0.02	3

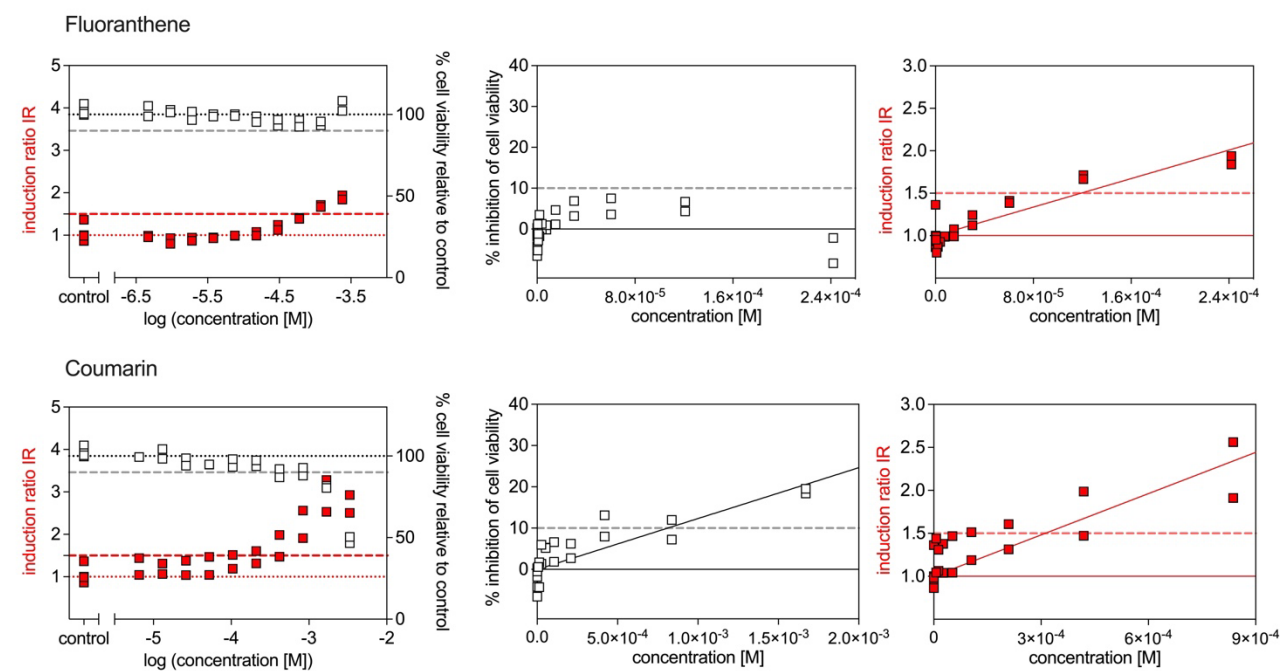
Supplementary Figure S1. Comparison of fiber-water distribution ratios ($D_{f/w}$) of chemicals tested individually (single) and tested in a 12-component mixture (mix). Solid line indicates line of identity, dashed lines a deviation of a factor of 10. Data from Table S5.

5 Single chemical effects of fluoranthene and coumarin

Supplementary Table S6. Nominal and freely dissolved effect concentrations in the AREc32 bioassay for cytotoxicity ($IC_{10,nom}$ and $IC_{10,free}$) and activation of oxidative stress response ($EC_{IR1.5,nom}$ and $EC_{IR1.5,free}$).

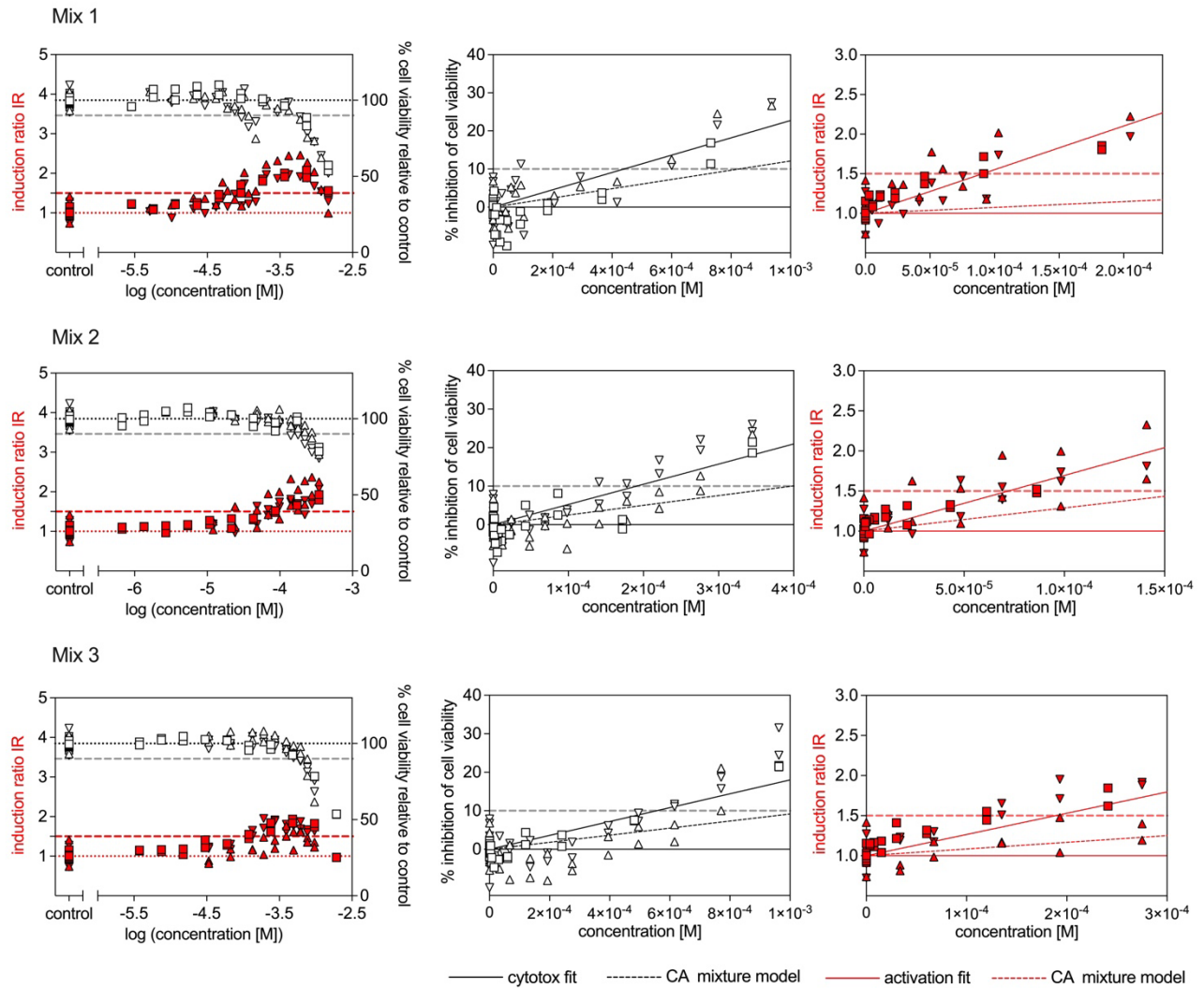
Chemical	Cytotoxicity				Activation of oxidative stress response			
	$IC_{10,nom}$ [M]	%CV	$IC_{10,free}$ [M]	%CV	$EC_{IR1.5,nom}$ [M]	%CV	$EC_{IR1.5,free}$ [M]	%CV
Fluoranthene	not cytotoxic up to 2.42×10^{-4} M		not cytotoxic up to 3.43×10^{-7} M		1.19×10^{-4}	7.9%	2.18×10^{-7}	8.6%
Coumarin	8.12×10^{-4}	8.1%	7.55×10^{-4}	11.5%	3.12×10^{-4}	11.2%	2.71×10^{-4}	12.0%

Supplementary Figure S2. Nominal concentration response curves of fluoranthene and coumarin.



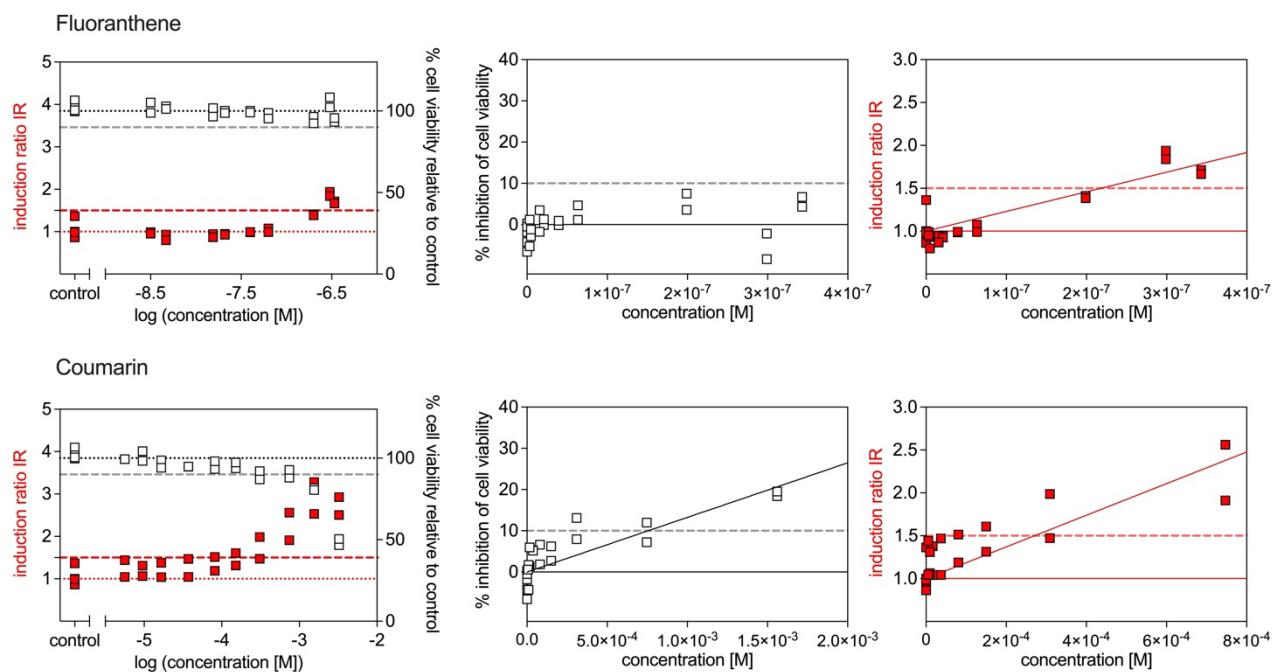
6 Effects of mixtures

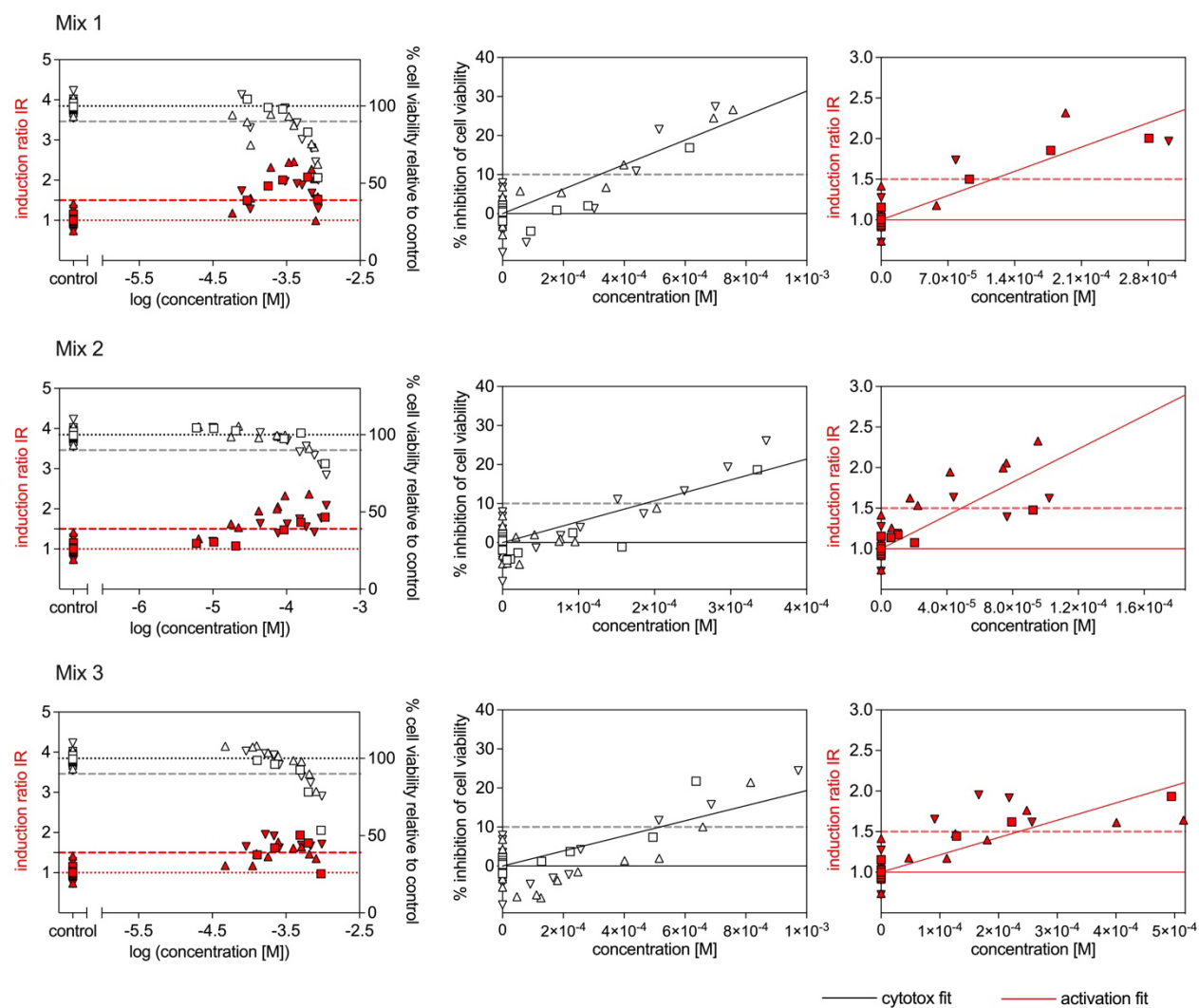
Supplementary Figure S3. Nominal concentration response curves of the mixtures.



7 Freely dissolved concentration response curves

Supplementary Figure S4. Freely dissolved concentration response curves of fluoranthene and coumarin.



Supplementary Figure S5. Freely dissolved concentration response curves of the mixtures.

8 Measured freely dissolved concentrations of individual chemicals

Supplementary Table S7. Measured freely dissolved concentrations ($C_{\text{free},i}$) of the individual test chemicals and calculated freely dissolved concentrations of the mixtures ($C_{\text{free,mix}}$) for Mix 1.

$C_{\text{nom,mix}}$ [M]	$C_{\text{free},i}$ [M]												$C_{\text{free,mix}}$ [M]
	bisphenol A	fluoranthene	caffeine	coumarin	lamotrigine	diclofenac	2,4-D	ibuprofen	naproxen	torasemide	warfarin	genistein	
Serial dilution													
1.46E-03	3.33E-06	2.40E-08	2.78E-04	3.48E-04	1.10E-04	1.13E-06	2.41E-05	1.96E-05	1.46E-05	2.28E-05	1.10E-05	8.26E-06	8.41E-04
7.32E-04	1.73E-06	8.85E-09	2.81E-04	2.00E-04	7.07E-05	4.29E-07	1.51E-05	9.57E-06	5.15E-06	2.04E-05	6.36E-06	4.20E-06	6.15E-04
3.66E-04	7.56E-07	4.44E-09	1.20E-04	1.05E-04	3.05E-05	1.01E-07	6.85E-06	2.89E-06	4.23E-07	1.05E-05	2.50E-06	1.28E-06	2.81E-04
1.83E-04	4.14E-07	2.84E-09	8.89E-05	5.87E-05	1.66E-05	4.19E-08	4.05E-06	9.24E-07	1.15E-07	6.42E-06	9.88E-07	7.13E-07	1.78E-04
9.15E-05	2.62E-07	1.92E-09	5.14E-05	2.90E-05	6.70E-06	1.36E-08	1.63E-06	3.99E-07	4.13E-08	2.32E-06	5.09E-07	2.60E-07	9.25E-05
4.58E-05		1.17E-09	2.66E-05	1.56E-05	5.06E-06	6.37E-09	6.38E-07			8.64E-07	2.27E-07	9.48E-08	
2.29E-05		1.89E-10	9.99E-06	6.64E-06	2.11E-06					4.53E-07	8.94E-08		
1.14E-05			5.49E-06	3.77E-06	1.20E-06					2.52E-07	6.07E-08		
5.72E-06										1.44E-07	3.07E-08		
2.86E-06										5.43E-08	1.74E-08		
Linear dilution 1 high													
1.46E-03	2.83E-06	3.92E-08	3.43E-04	2.45E-04	1.21E-04	8.22E-07	1.34E-05	8.86E-06	7.52E-06	2.69E-05	1.44E-05	4.27E-06	7.89E-04
1.17E-03	2.37E-06	2.09E-08	4.23E-04	2.52E-04	8.21E-05	6.51E-07	1.11E-05	1.13E-05	7.85E-06	2.95E-05	1.67E-05	5.71E-06	8.42E-04
9.37E-04	1.98E-06	1.52E-08	3.93E-04	2.11E-04	7.38E-05	5.50E-07	1.07E-05	1.12E-05	6.33E-06	3.01E-05	1.48E-05	4.49E-06	7.57E-04
7.54E-04	1.60E-06	1.31E-08	3.84E-04	1.88E-04	6.31E-05	3.72E-07	8.46E-06	6.94E-06	3.52E-06	2.88E-05	5.11E-06	4.25E-06	6.93E-04
6.00E-04	9.28E-07	1.39E-08	2.02E-04	1.24E-04	3.88E-05	2.13E-07	6.43E-06	1.94E-06	1.34E-06	1.73E-05	2.77E-06	2.92E-06	3.99E-04
4.17E-04	7.42E-07	6.51E-09	1.81E-04	1.02E-04	2.90E-05	1.07E-07	3.98E-06	2.34E-06	7.19E-07	1.56E-05	1.96E-06	1.82E-06	3.40E-04
2.93E-04	3.89E-07	3.78E-09	8.78E-05	6.74E-05	2.10E-05	6.19E-08	3.04E-06	1.26E-06	2.97E-07	9.70E-06	1.35E-06	1.17E-06	1.94E-04
2.05E-04	3.43E-07	8.62E-09	3.55E-05	2.86E-05	9.07E-06	3.26E-08	1.22E-06		1.34E-08	2.56E-06	5.71E-07	5.61E-07	
1.03E-04	2.00E-07	1.17E-09	3.91E-05	2.43E-05	5.97E-06	2.43E-08	9.19E-07		9.42E-09	1.91E-06	4.99E-07	2.95E-07	
5.13E-05		7.79E-10	1.06E-05	7.60E-06	3.05E-06							6.06E-08	
Linear dilution 1 low													
1.46E-04	4.69E-07	5.93E-09	4.79E-05	3.67E-05	9.61E-06	4.12E-08	1.19E-06	9.32E-07	2.07E-08	4.54E-06	8.19E-07	6.00E-07	1.03E-04
1.17E-04	2.77E-07	4.70E-09	4.60E-05	3.18E-05	7.81E-06	3.42E-08	9.87E-07	4.22E-07	1.02E-08	3.55E-06	6.62E-07	3.80E-07	9.19E-05
9.37E-05	9.59E-08	4.70E-09	2.82E-05	2.06E-05	6.14E-06	1.88E-08	6.32E-07	2.54E-07	6.13E-09	1.47E-06	3.94E-07	2.29E-07	5.81E-05
7.54E-05	6.62E-08	3.00E-09	2.69E-05	1.71E-05	5.10E-06	7.26E-09	5.24E-07		4.81E-09	1.27E-06	3.70E-07	1.60E-07	
6.00E-05	4.16E-08	1.45E-09	2.21E-05	1.35E-05	3.85E-06	4.53E-09				8.85E-07	2.33E-07	9.60E-08	
4.17E-05	6.21E-08	1.85E-09	1.62E-05	9.81E-06	2.63E-06					2.73E-07	1.18E-07	4.83E-08	
2.93E-05	1.55E-08	4.32E-10	7.94E-06	6.52E-06	2.25E-06					1.16E-07	5.95E-08	3.05E-08	
2.05E-05	2.15E-08	4.14E-10	9.70E-06	5.14E-06	1.56E-06					1.33E-07	6.38E-08	1.82E-08	
1.03E-05		1.53E-10	4.76E-06	2.55E-06	7.73E-07					6.58E-08		1.25E-08	
5.13E-06			2.11E-06	1.16E-06	4.00E-07					2.39E-08			

Supplementary Table S7 continued.

Linear dilution 2 high													
1.46E-03	2.63E-06	3.80E-08	3.82E-04	2.38E-04	1.33E-04	1.08E-06	1.43E-05	1.50E-05	8.76E-06	3.10E-05	1.97E-05	5.35E-06	8.52E-04
1.17E-03	1.96E-06	3.05E-08	3.58E-04	2.23E-04	1.14E-04	6.61E-07	1.40E-05	1.33E-05	7.07E-06	3.12E-05	1.74E-05	5.87E-06	7.87E-04
9.37E-04	2.11E-06	2.51E-08	3.24E-04	1.99E-04	9.94E-05	4.92E-07	1.03E-05	9.42E-06	5.29E-06	3.13E-05	1.41E-05	4.41E-06	6.99E-04
7.54E-04	1.38E-06	1.88E-08	2.37E-04	1.47E-04	7.42E-05	3.29E-07	7.87E-06	4.56E-06	3.20E-06	2.52E-05	1.05E-05	3.22E-06	5.15E-04
6.00E-04	1.19E-06	1.27E-08	2.13E-04	1.24E-04	6.19E-05	2.44E-07	6.75E-06	2.91E-06	1.99E-06	2.06E-05	3.48E-06	2.83E-06	4.39E-04
4.17E-04	8.88E-07	6.99E-09	1.47E-04	8.55E-05	4.09E-05	1.30E-07	4.49E-06	2.76E-06	7.64E-07	1.49E-05	2.17E-06	1.76E-06	3.02E-04
2.93E-04	2.65E-07		1.13E-04	5.96E-05	2.68E-05	7.29E-08	2.26E-06	1.52E-06	3.34E-07	8.99E-06	1.28E-06	8.97E-07	
2.05E-04	6.49E-07		7.97E-05	4.50E-05	1.88E-05	4.87E-08	1.65E-06	8.86E-07	1.95E-08	3.56E-06	9.51E-07	8.28E-07	
1.03E-04	1.44E-07	2.46E-09	4.31E-05	2.53E-05	5.33E-06	2.21E-08	8.69E-07	5.04E-07	5.18E-09	2.01E-06	5.97E-07	2.94E-07	7.82E-05
5.13E-05	6.21E-08	1.05E-09	1.49E-05	1.15E-05	4.86E-06					7.26E-07	2.32E-07	9.03E-08	
Linear dilution 2 low													
1.46E-04	2.00E-07	1.51E-08	4.36E-05	4.15E-05	1.04E-05	3.86E-08	9.04E-07	5.61E-07	1.86E-08	3.42E-06	7.24E-07	5.30E-07	1.02E-04
1.17E-04		1.03E-08	4.13E-05	2.31E-05	7.96E-06	2.04E-08	5.74E-07		1.09E-08	1.58E-06	3.41E-07	3.07E-07	
9.37E-05	5.99E-08	5.69E-09	2.17E-05	2.28E-05	8.32E-06	1.85E-08	4.00E-07	2.61E-07		1.28E-06	4.31E-07	2.49E-07	
7.54E-05	6.10E-08	5.02E-09	2.31E-05	2.07E-05	6.65E-06	6.19E-09	3.61E-07	1.58E-07		1.17E-06	3.56E-07	1.67E-07	
6.00E-05	1.16E-07	1.95E-09	1.24E-05	1.42E-05	3.73E-06					1.14E-06	2.64E-07	1.44E-07	
4.17E-05			1.15E-05	9.10E-06	3.23E-06					1.73E-07	1.09E-07	6.67E-08	
2.93E-05		2.05E-09	8.32E-06	8.20E-06	2.60E-06					1.44E-07	9.12E-08	4.94E-08	
2.05E-05		6.74E-10	4.61E-06	3.75E-06	1.45E-06					4.11E-08	3.40E-08		
1.03E-05		3.32E-11	4.07E-06	2.71E-06						6.10E-08		1.90E-08	
5.13E-06			1.44E-06	1.24E-06						1.96E-08			

Supplementary Table S8. Measured freely dissolved concentrations ($C_{\text{free},i}$) of the individual test chemicals and calculated freely dissolved concentrations of the mixtures ($C_{\text{free,mix}}$) for Mix 2.

C _{nom,mix} [M]	C _{free,i} [M]				C _{free,mix} [M]
	bisphenol A	fluoranthene	coumarin	genistein	
Serial dilution					
3.45E-04	1.27E-05	7.82E-08	3.20E-04	2.60E-06	3.35E-04
1.72E-04	5.90E-06	3.52E-08	1.50E-04	1.33E-06	1.57E-04
8.62E-05	3.45E-06	1.91E-08	8.83E-05	7.53E-07	9.25E-05
4.31E-05		9.02E-09	4.32E-05	2.66E-07	
2.16E-05	5.96E-07	4.23E-09	1.97E-05	9.02E-08	2.04E-05
1.08E-05	2.26E-07	1.86E-09	1.00E-05	4.60E-08	1.03E-05
5.39E-06	7.88E-08	6.70E-10	5.87E-06	2.05E-08	5.97E-06
2.69E-06			2.58E-06		
1.35E-06					
6.74E-07					

Supplementary Table S8 continued.

Linear dilution 1					
3.45E-04	1.27E-05		1.62E-04	2.40E-06	
2.76E-04	7.09E-06	7.62E-08	1.93E-04	2.31E-06	2.03E-04
2.21E-04			9.77E-05	1.10E-06	
1.78E-04	2.16E-06	2.03E-07	7.30E-05	8.63E-07	7.62E-05
1.41E-04	4.35E-06	1.31E-07	9.01E-05	8.67E-07	9.55E-05
9.83E-05	3.21E-06	2.23E-08	7.04E-05	6.40E-07	7.43E-05
6.90E-05	1.55E-06	1.68E-08	4.00E-05	4.51E-07	4.20E-05
4.83E-05	1.07E-06	3.00E-08	2.11E-05	1.69E-07	2.23E-05
2.41E-05	4.39E-07	5.21E-09	1.71E-05	9.05E-08	1.77E-05
1.21E-05	3.67E-07	8.60E-09	5.97E-06	3.70E-08	6.38E-06
Linear dilution 2					
3.45E-04	1.57E-05	1.12E-07	3.29E-04	1.98E-06	3.47E-04
2.76E-04	2.35E-05	8.47E-08	2.71E-04	1.55E-06	2.96E-04
2.21E-04	1.37E-05	6.09E-08	2.23E-04	2.01E-06	2.39E-04
1.78E-04	6.07E-06	4.28E-08	1.78E-04	1.09E-06	1.86E-04
1.41E-04	4.59E-06	4.20E-08	1.46E-04	9.22E-07	1.51E-04
9.83E-05	3.86E-06	2.77E-08	9.78E-05	6.24E-07	1.02E-04
6.90E-05	2.02E-06	1.53E-08	7.42E-05	3.59E-07	7.66E-05
4.83E-05	1.87E-06	8.69E-09	4.20E-05	2.24E-07	4.41E-05
2.41E-05	9.39E-07	6.04E-09		6.63E-08	
1.21E-05	3.65E-07	3.44E-09	9.57E-06	3.68E-08	9.97E-06

Supplementary Table S9. Measured freely dissolved concentrations ($C_{\text{free},i}$) of the individual test chemicals and calculated freely dissolved concentrations of the mixtures ($C_{\text{free,mix}}$) for Mix 3.

C _{nom,mix} [M]	C _{free,i} [M]								C _{free,mix} [M]
	bisphenol A	fluoranthene	caffeine	coumarin	lamotrigine	diclofenac	torasemide	genistein	
Serial dilution									
1.93E-03	4.40E-06	3.50E-08	3.32E-04	4.57E-04	1.17E-04	1.23E-06	2.61E-05	1.03E-05	9.49E-04
9.63E-04	2.59E-06	1.37E-08	2.54E-04	2.73E-04	6.86E-05	4.67E-07	3.15E-05	6.04E-06	6.36E-04
4.82E-04	2.07E-06	6.53E-09	2.59E-04	1.67E-04	4.86E-05	1.49E-07	1.47E-05	3.32E-06	4.94E-04
2.41E-04	5.90E-07	2.82E-09	1.20E-04	7.64E-05	1.87E-05	6.69E-08	6.67E-06	7.40E-07	2.23E-04
1.20E-04	2.84E-07	1.20E-09	7.51E-05	3.76E-05	1.18E-05	1.78E-08	3.07E-06	5.29E-07	1.28E-04
6.02E-05		9.20E-10	3.23E-05	1.91E-05	4.97E-06	7.69E-09	1.27E-06	1.49E-07	
3.01E-05		5.08E-10	1.32E-05		2.76E-06		4.98E-07	6.62E-08	
1.51E-05			8.58E-06		1.48E-06		3.85E-07	4.30E-08	
7.53E-06			3.82E-06		6.40E-07		1.43E-07		
3.76E-06							8.26E-08		

Supplementary Table S9 continued.

Linear dilution 1									
9.63E-04	2.74E-06	2.35E-08	4.63E-04	2.44E-04	7.42E-05	4.49E-07	2.61E-05	5.22E-06	8.16E-04
7.71E-04	2.12E-06	1.96E-08	3.78E-04	1.87E-04	6.42E-05	3.20E-07	2.27E-05	4.48E-06	6.59E-04
6.16E-04	1.40E-06	1.51E-08	3.25E-04	1.22E-04	4.62E-05	2.23E-07	1.77E-05	3.18E-06	5.15E-04
4.96E-04	1.43E-06	1.36E-08	2.50E-04	9.82E-05	3.67E-05	1.74E-07	1.20E-05	2.42E-06	4.01E-04
3.95E-04	3.24E-07	1.04E-08	1.28E-04	8.44E-05	2.92E-05	1.19E-07	4.30E-06	1.86E-06	2.48E-04
2.75E-04	5.26E-07	1.12E-08	1.01E-04	5.12E-05	2.38E-05	5.87E-08	3.66E-06	8.59E-07	1.81E-04
1.93E-04	4.66E-07	3.60E-09	6.25E-05	4.16E-05	1.86E-05	4.54E-08	2.52E-06	7.16E-07	1.26E-04
1.35E-04	3.83E-07	2.70E-09	5.96E-05	3.73E-05	1.32E-05	3.76E-08	1.05E-06	5.70E-07	1.12E-04
6.74E-05	1.06E-07	1.52E-09	2.43E-05	1.60E-05	6.48E-06	1.11E-08	3.25E-07	1.63E-07	4.74E-05
3.37E-05		1.60E-09	1.14E-05	8.37E-06	3.07E-06		1.53E-07	5.58E-08	
Linear dilution 2									
9.63E-04	4.88E-06	2.74E-08	5.37E-04	2.93E-04	9.47E-05	5.41E-07	3.69E-05	5.28E-06	9.73E-04
7.71E-04	3.44E-06	1.95E-08	4.15E-04	1.55E-04	8.47E-05	2.55E-07	2.34E-05	4.26E-06	6.86E-04
6.16E-04	2.24E-06	1.13E-08	3.24E-04	1.13E-04	5.66E-05	1.65E-07	1.51E-05	2.72E-06	5.14E-04
4.96E-04	4.48E-07								
3.95E-04	1.15E-06	1.03E-08	1.41E-04	6.62E-05	3.89E-05	9.08E-08	8.54E-06	1.73E-06	2.57E-04
2.75E-04	1.29E-06	7.42E-09	1.23E-04	5.65E-05	2.97E-05	7.46E-08	6.79E-06	1.27E-06	2.18E-04
1.93E-04	5.71E-07	4.18E-09	9.99E-05	4.31E-05	1.79E-05	3.91E-08	4.22E-06	7.64E-07	1.67E-04
1.35E-04	4.68E-07	4.26E-09	5.45E-05	2.68E-05	8.07E-06	1.95E-08	9.50E-07	5.27E-07	9.14E-05
6.74E-05		1.86E-09		1.78E-05	7.51E-06	1.31E-08	5.84E-07	1.98E-07	
3.37E-05	9.00E-08	1.43E-09		9.10E-06	3.90E-06	6.21E-09	2.79E-07	7.23E-08	

9 Contribution of individual chemicals to freely dissolved concentrations of Mix 2 and 3

Supplementary Figure S6 Contribution of the measured freely dissolved concentrations of the individual chemicals ($C_{\text{free},i}$) to the freely dissolved concentrations of the mixtures ($C_{\text{free,mix}}$) Mix 2 (A) and 3 (B).

