

B709745J Supplementary electronic information

Method performance data

Hilton, M. and Thomas, K.V. (2003) Determination of selected pharmaceutical contaminants in water samples by liquid chromatography-electrospray tandem mass spectrometry. *Journal of Chromatography A*. **1015**, 129-141.

Reported WTW effluent occurrence data for the SFT selected pharmaceuticals

Substance	Concentration (µg L ⁻¹)	Median (µg L ⁻¹)	Location and reference
Paracetamol	nd		6 WTW, UK ^{7, 8}
Diclofenac	0.038-0.489		Selected WTW, Germany ¹⁴
	0,1-0,7	0,23	Selected WTW, Sweden
	nd-5.45	0.47	Selected WTW, Europe ^{12, 13}
		0.81	Selected WTW, Germany ⁶
	0.261-0.598		1 WTW, UK ⁸
	nd-2.34	0.424	Selected WTW, UK ⁷
	0.012-0.56		Selected Greek WTW ¹⁹
Ibuprofen		nd	Selected Canadian WTW ²⁰
	0.017-0.139		Selected WTW, Germany ¹⁴
	0,008-7,5	1,3	Selected WTW, Sweden
	0.05-7.11		Selected WTW, Europe ¹²
	nd		1 WTW, USA ²¹
	0.002-0.081		3 WTW, Switzerland ²²
		0.37	Selected Germany ⁶
	1.9-4.2	2.972	1 WTW, UK ⁸
	0.91-2.1		1 WTW Spain
	0.99-3.3		Selected WTW, Switzerland ²²
	<0.02-27.25	3.08	Selected WTW, UK ⁷
		4.0	Selected Canadian WTW ²⁰
	<LOD		Bekkelaget WTW, Oslo, Norway ¹⁵
Sulfamethoxazole	0.18/0.24		VEAS WTW, Oslo, Norway ¹⁵
	0.3-1.5		Selected WTW, Germany ²³
	Nd-0.09	0.05	Selected WTW, Europe ¹²
	<0.05-0.132	<0.05	Selected WTW, UK
	nd-0.871	0.243	Selected WTW, Canada ²⁴
	0.073/0.13		Bekkelaget WTW, Oslo, Norway ¹⁵
Trimethoprim	0.092-0.16		VEAS WTW, Oslo, Norway ¹⁵
	218-322		1 WTW, UK ⁸
	nd-1.288	0.07	1 WTW, UK ⁷
	0.16/0.34		Bekkelaget WTW, Oslo, Norway ¹⁵
Ciprofloxacin	0.26/0.43		VEAS WTW, Oslo, Norway ¹⁵
	<LOD		Bekkelaget WTW, Oslo, Norway ¹⁵
	<LOD		VEAS WTW, Oslo, Norway ¹⁵
		0,31	Selected WTW, Wisconsin USA ²⁵
Cyclophosphamide	0,002-0,01		Selected WTW, Switzerland ²⁶

< LOD= less than limit of detection

Comparison of influent and effluent concentrations at VEAS WTW

Pharmaceutical	Reduction in effluent concentration (%)						
	(sampling week)						
	1	2	3	4	5	6	7
Paracetamol	99	100	99		-147		100
Metoprolol	-30	-38	-66		-20		50
Diclofenac	12	12	-39		-31		27
Ibuprofen	100	99	95		-221		95
Trimethoprim	55		-364	97	-360	66	-178
Ciprofloxacin	99	0	-400	0	0	0	99
Sulfamethoxazole	46				100	100	100