Supplementary Tables

This tables has been provided by the authors to give readers additional information about their work.

Supplement to: **Occurrence of non-steroidal anti-inflammatory drugs in surface waters of central Italy by HPLC tandem mass spectrometry**

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Table S1. Most important LC-MS/MS parameters optimized for SRM acquisition of the fourteen target compounds in water samples.

Periods	NSAIDs	t _r (min) Average (RSD)	SRM transitions ¹	DP (V)	CE (V)	Ion ratios Average (RSD)
1	Acetaminophen	4.37 (1.5)	150/118	-32	-39	0.35 (12)
			150/107		-26	
	Salicylic acid	5.13 (0.4)	137/65	-24	-42	35 (5.3)
			137/93		-25	
2	Naproxen	6.65 (0.4)	229/170	-10	-20	95 (4.0)
			229/185		-10	
	Ketoprofen	7.10 (0.3)	253/197	-15	-10	9.0 (7.5)
			253/209		-10	
	Meloxicam	7.51 (0.3)	350/113	-35	-37	39 (9.5)
			350/286		-19	
	Phenylbutazone	7.86 (0.3)	307/92	-47	-27	57 (8.0)
			307/279		-58	
	Ibuprofen	8.95 (0.3)	205/161	-23	-11	60 (8.3)
			205/159		-10	
	Nimesulide	9.01 (0.3)	307/198	-32	-39	15 (4.0)
			307/229		-23	
	Carprofen	9.78 (0.3)	272/260	-21	-7	10 (13)
			272/228		-15	
	Flunixin	9.90 (0.2)	295/231	-35	-32	14 (7.0)
			295/251		-24	
	Etodolac	9.95 (0.2)	286/197	-38	-44	30 (5.4)
			286/212		-35	
	Diclofenac	10.11 (0.5)	294/214	-25	-29	5.5 (4.5)
			294/250		-15	
	Meclofenamic acid	11.21 (0.4)	294/214	-34	-29	34 (6.0)
			294/258		-19	
	Tolfenamic	11.43 (0.3)	262/218	-38	-23	25 (3.5)
			260/216		-23	

^a: the first line reports the least intense SRM transition (qualifier) and the second line the most intense one (quantifier)

Table S2. SRM transitions of the labelled internal standards used for NSAIDs quantitation

Periods	Internal standard	SRM transition
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1	Acetaminophen-d ₃	153/107
	Salicylic acid-d ₆	143/97
2	Naproxen-d ₃	232/188
	Ketoprofen-d ₃	256/212
	Meloxicam-d ₃	353/289
	Phenylbutazone- ¹³ C ₁₂	319/291
	Ibuprofen-d ₃	208/164
	Nimesulide-d ₅	312/234
	Carprofen-d ₃	275/231
	Flunixin-d ₃	298/254
	Etodolac-d ₃	289/215
	Diclofenac- ¹³ C ₆	300/256
	Meclofenamic acid-d ₄	298/262
	Tolfenamic acid-d ₄	264/220

Table S3. Sales trend in Italy in DDD per 1000 inhabitants per day according to our Government Agency (AIFA) and in mg per day after calculations from World Health Organization data.

Drugs	AIFA sales data (DDD per 1000 inhabitants per day)	WHO DDD values per drugs (mg per day)	AIFA-WHO sales data in Italy (mg per day)
Diclofenac	4.3	100	430
Ketoprofen	4.3	150	643
Nimesulide	3.6	200	720
Ibuprofen	2.3	1200	2760
Naproxen	0.9	500	450