

Table S1 Compounds analysed

Compound No.	Compound Name	Abbreviation	CAS#	Company	Number and amount	Purity and form	Calibration interval pg injected on column
23 STANDARDS							
1	Atenolol	ATE	29122-68-7	Fluka	74827-100MG	Analytical reference material ≥98.0% (qNMR) ≥98.5% (HPLC)	0.1-100
2	Carbamazepine	CAR	298-46-4	Fluka	94496-100MG	Analytical standard ≥99.0% (HPLC)	0.1-100
3	Clarithromycin						
4	Ciprofloxacin	CIP	85721-33-1	Fluka	PHR1167-1G	Pharmaceutical secondary standard; traceable to USP and PhEur	0.1-100
5	Citalopram	CIT	59729-33-8	Fluka	PHR1640-1G	Pharmaceutical secondary standard; traceable to USP, PhEur	0.1-100
6	Diclofenac	DIC	15307-79-6	Fluka	93484-100MG	Analytical standard ≥98.5% (HPLC)	0.1-100
7	Erythromycin	ERY	114-07-8	Fluka	PHR1039-1G	Pharmaceutical secondary standard; traceable to USP, PhEur and BP	0.1-100
8	Estrone	E1	53-16-7	Fluka	46573-250MG	VETRANAL™, analytical standard	0.5-500
9	Fluconazole	FLU	86386-73-4	Sigma-Aldrich	PHR1160-1G	Pharmaceutical secondary standard; traceable to USP	0.1-100
10	Imidacloprid	IMI	138261-41-3	Fluka	37894-100MG	PESTANAL®, analytical standard	0.1-100
11	Ketoconazole	KET	65277-42-1	Fluka	PHR1385-1G	Certified reference material	0.1-100
12	Losartan	LOS	124750-99-8	Sigma-Aldrich	PHR1602-1G	Pharmaceutical secondary standard; traceable to USP, PhEur, BP	0.1-100
13	Metoprolol	MET	37350-58-6	Fluka	PHR1076-1G	Pharmaceutical secondary standard; traceable to USP, PhEur and BP	0.1-100
14	Naproxen	NAP	22204-53-1	Sigma-Aldrich	PHR1040-500MG	Pharmaceutical secondary standard; traceable to USP, PhEur, BP	0.5-500
15	Octyl methoxycinnamate	EHM	5466-77-3	Fluka	55529-100MG	Analytical standard	0.1-100
16	Oxazepam	OXA	604-75-1	Pfizer	25 mg	Pharmaceutical standard	0.1-100
17	Paracetamol	PAR	103-90-2	Kemwell	2 g	Pharmaceutical standard	0.1-100
18	Propranolol	PRO	318-98-9	Fluka	40543-100MG	Analytical reference material	0.1-100
19	Sulfamethoxazole	SUL	723-46-6	Fluka	31737-250MG	VETRANAL™, analytical standard	0.1-100
20	Tramadol	TRA	27203-92-5	Actavis	50 mg	Pharmaceutical standard	0.1-100
21	Trimethoprim	TRI	738-70-5	SIGMA	92131-1G	Crystallized, ≥99.0% (HPLC)	0.1-100
22	Venlafaxine	VEN	93413-69-5	FLUKA	Y0000587	European Pharmacopoeia (EP) Reference Standard (50 mg)	0.1-100
23	Zolpidem	ZOL	82626-48-0	Actavis	5 mg		0.1-100
7 LABELLED STANDARDS - "INTERNAL STANDARD MIXTURE"							Amount ng added to extraction cell
1	Atenolol-D7	ATEd7					15
2	Carbamazepine-D10	CARd10					15
3	Diclofenac-(acetophenyl ring-13C6)	DICc6					
4	Methiocarb-(N-methyl-d3)	MIOd3					15
5	(±)-Metoprolol-(isopropyl-d7) (+)-tartrate	METd7					
6	Sulfamethoxazole-(phenyl-13C6)	SULc6					15
7	Estrone-2,4,16,16-d4	E1d4					75
1 INSTRUMENTAL STANDARD							pg injected on column
1	Thiacloprid-(thiazolidin ring-d4)	THId4					10

Table S2**Labelled standard
used for each API**

API	Labelled standard
Atenolol	Atenolol-D7
Carbamazepine	Carbamazepine-D10
Clarithromycin	Diclofenac-13C6
Ciprofloxacin	Carbamazepine-D10
Citalopram	Sulfamethoxazole-13C6
Diclofenac	Diclofenac-13C6
Erythromycin	Atenolol-D7
Estrone	Estrone-D4
Fluconazole	Sulfamethoxazole-13C6
Imidacloprid	Carbamazepine-D10
Ketokonazole	Diclofenac-13C6
Losartan	Atenolol-D7
Metoprolol	Metoprolol-D7
Naproxen	Metoprolol-D7
Octylmethoxycinnamate	Carbamazepine-D10
Oxazepam	Carbamazepine-D10
Paracetamol	Diclofenac-13C6
Propranolol	Metoprolol-D7
Sulfamethoxazole	Sulfamethoxazole-13C6
Tramadol	Metoprolol-D7
Trimethoprim	Carbamazepine-D10
Venlafaxine	Methiocarb-D3
Zolpidem	Metoprolol-D7