

Supplementary Materials: Health Risk Assessment of Banned Veterinary Drugs and Quinolone Residues in Shrimp through Liquid Chromatography–Tandem Mass Spectrometry

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Supplementary Table S1. Retention time and MS/MS fragmentation conditions for veterinary drugs and their corresponding internal standards.

Analyte and Related Internal Standard	Retention Time (min)	Precursor Ion	Quantification Ion (Collision Energy) m/z (eV)	Identification Ion (Collision Energy) m/z (eV)	Cone Voltage (V)
Chloramphenicol	3.59	321	152 (−24)	257 (−18)	−70
Florfenicol	2.24	356	336 (−14)	185 (−28)	−65
Thiamphenicol	1.82	354	185 (−30)	290 (−18)	−70
Danofloxacin	4.04	358	340 (31)	314 (27)	81
Difloxacin	4.09	400	356 (29)	382 (29)	96
Enrofloxacin	4.01	360	342 (29)	316 (27)	86
Flumequine	5.37	262	244 (25)	202 (47)	46
Sarafloxacin	4.16	386	368 (29)	299 (43)	86
MG	5.21	329	313 (55)	208 (61)	121
MG -D5	5.20	334	318(51)	-	86
LMG	5.89	331	239 (41)	223 (67)	36
LMG -D5	5.85	336	239.2(45)	-	51
AMAZ	3.00	335	291 (17)	262 (23)	66
AMAZ-D5	2.90	340	296 (17)	-	66
AOZ	4.18	236	134 (19)	104 (31)	66
AOZ-D4	4.15	240	134 (17)	-	66
AH	4.05	249	104 (31)	134 (17)	66
SC	4.22	209	166 (15)	192 (17)	61
SC- ¹³ C ₁₅ N ₂	4.22	212	168 (13)	-	61

Supplementary Table S2. Recovery, repeatability, and LOQ of veterinary drugs spiked into whiteleg shrimp.

Analyte	Whiteleg Shrimp			
	spiked level (ng/g)	Recovery (%)	RSD (%)	LOQ (ng/g)
Chloramphenicol	1	89.25	7.18	0.25
	5	90.62	3.79	
Florfenicol	1	90.32	8.16	0.25
	5	92.35	9.67	
Thiamphenicol	1	88.67	6.85	0.25
	5	90.56	8.65	
Danofloxacin	5	78.52	9.72	1
	25	80.21	11.37	
Difloxacin	5	76.67	13.62	1
	25	79.53	14.58	
Enrofloxacin	5	89.37	8.69	1
	25	103.31	12.56	
Flumequine	5	93.56	11.57	1
	25	95.51	13.53	
Sarafloxacin	5	75.21	6.72	1
	25	82.62	8.75	
MG	1	98.81	4.21	0.25
	5	99.63	3.58	
LMG	1	99.92	6.52	0.25
	5	100.31	8.13	
AMTZ	1	99.29	2.98	0.25
	5	100.42	0.98	
AOZ	1	100.28	4.11	0.25
	5	100.52	4.87	
AH	1	100.29	5.58	0.25
	5	100.51	3.53	
SC	1	99.89	3.42	0.25
	5	100.25	1.85	