SUPPLEMENTARY MATERIALS

Residue depletion profile and estimation of withdrawal period for sulfadimethoxine and ormetoprim in edible tissues of Nile tilapia (*Oreochromis* sp.) on medicated feed

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Table S1. The selected reaction monitoring (SRM) acquisition parameters for monitoring the target analytes.

Analyte	Molecular formula	Precursor ion (m/z)	Monitored transitions	Cone voltage (V)	Collision energy (eV)
SDM	$C_{12}H_{14}N_4O_4S$	311	311 > 156[1]	55	35
			311 > 245[2]	55	35
OMP	$C_{14}H_{18}N_4O_2$	275	275 > 259[1]	35	30
			275 > 123[2]	35	21
IS	$C_{10}H_{11}N_3O_3S$	254	254 > 156[1]	60	40
			254 > 98[2]	60	52

[1] Quantifier transition; [2] qualifier transition

SDM = sulfadimethoxine; OMP = ormetoprim; IS = Internal standard (sulfamethoxazole)

Table S2. Parameters of evaluation to assess the reliability of the analytical method for determination of SDM and OMP in fish feed.

Parameter	OMP	SDM
Linear range (μg mL^{-1})	0.2 – 1.0	1.0 – 5.0
Linearity (r)	0.9952 – 1.00	0.9981 – 1.00
Intra-day precision (CV, %, n = 3)		
OMP = 0.4; SDM = 2.0 (μg mL^{-1}, n = 3)	0.7	1.2
OMP = 0.6; SDM = 3.0 (μg mL^{-1}, n = 3)	2.2	0.9
OMP = 0.8; SDM = 4.0 (μg mL^{-1}, n = 3)	1.0	1.3
Inter-days precision (CV, %, n = 3)		
OMP = 0.4; SDM = 2.0 (μg mL^{-1}, n = 3)	2.2	1.8
OMP = 0.6; SDM = 3.0 (μg mL^{-1}, n = 3)	2.4	1.8
OMP = 0.8; SDM = 4.0 (μg mL^{-1}, n = 3)	2.3	0.8
Intra-day trueness (recovery, %, n = 3)		
OMP = 0.4; SDM = 2.0 (μg mL^{-1}, n = 3)	100.2	99.1
OMP = 0.6; SDM = 3.0 (μg mL^{-1}, n = 3)	102.5	101.1
OMP = 0.8; SDM = 4.0 (μg mL^{-1}, n = 3)	101.9	100.2
Inter-day trueness (recovery, %, n = 3)		
OMP = 0.4; SDM = 2.0 (μg mL^{-1}, n = 3)	98.7	100.2
OMP = 0.6; SDM = 3.0 (μg mL^{-1}, n = 3)	102.9	102.1
OMP = 0.8; SDM = 4.0 (μg mL^{-1}, n = 3)	101.7	100.7

SDM = sulfadimethoxine; OMP = ormetoprim; CV = coefficient of variation;

Table S3. Parameters of evaluation to assess the reliability of the analytical method for determination of SDM and OMP in fish fillet.

Parameter	OMP	SDM
Linear range (ng g^{-1})	20.0 – 260	20.0 – 260
Linearity (r)	0.997 – 0.99	0.996 – 1.00
Intra-day precision (CV, %, n = 3)		
20 (ng g^{-1}, n = 3)	2.3	8.4
140 (ng g^{-1}, n = 3)	3.6	3.8
260 (ng g^{-1}, n = 3)	0.8	1.9
Inter-days precision (CV, %, n = 3)		
20 (ng g^{-1}, n = 3)	2.5	5.1
140 (ng g^{-1}, n = 3)	0.9	3.3
260 (ng g^{-1}, n = 3)	0.9	4.7
Trueness (recovery, %, n = 3)		
OMP = 0.4; SDM = 2.0 (μg mL^{-1}, n = 3)	107	85.0
OMP = 0.6; SDM = 3.0 (μg mL^{-1}, n = 3)	95.0	106
OMP = 0.8; SDM = 4.0 (μg mL^{-1}, n = 3)	101	99.0
LOD (ng/g, n = 3)	1.0	3.0
LOQ (ng/g, n = 3)	20.0	20.0
LOQ precision (CV, %, n = 3)	2.3	8.4
LOQ trueness (recovery, %, n = 3)	107.2	85.4

SDM = sulfadimethoxine; OMP = ormetoprim; CV = coefficient of variation; LOD = limit of detection; LOQ = limit of quantification

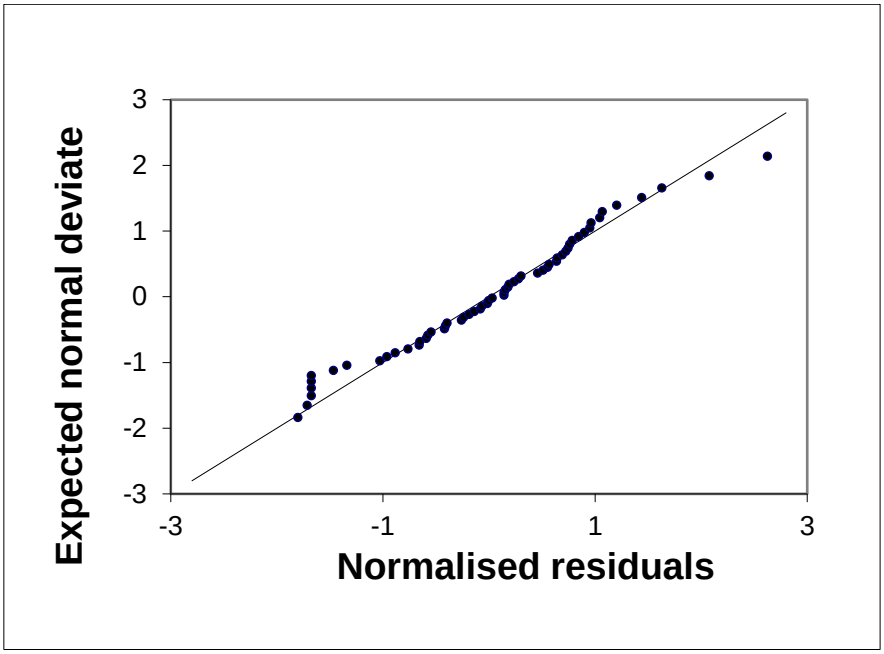

Fig. S1. Graph of the ordered normalized residuals versus their cumulative frequency, prepared on a normal probability scale.