

**Table S1.** e-Reader® values obtained with Explorer®-Blood for the different combinations of antimicrobials and concentrations tested (spiked samples). Each column (R1–R10) presents the result of each of the replicates analyzed, as well as de medium value, standard deviation (SD) and qualitative result (+/–). For comparison purposes and as a reference, the last column includes the EU-MRLs for muscle (Commission Regulation (EU) No 37/2010). Concentration is presented as  $\mu\text{g Kg}^{-1}$ . Concentrations in bold correspond to the LoDs of the method.

Molecule	Concentration	n	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	e-Reader® Value	SD	Result	EU-MRL (Muscle)
Amoxicillin	10	3	76	82	80								79	3	+	
	<b>15</b>	8	117	117	117	109	125	127	129	129			121	7	+	<b>50</b>
	20	3	127	123	124								125	2	+	
Cefalexin	100	5	34	39	38	38	35						37	2	–	
	200	10	73	74	71	50	43	49	66	64	107	105	70	22	+/–	
	<b>250</b>	8	67	73	76	65	65	65	60	65			67	5	+	<b>200</b>
	300	5	75	76	73	116	112						90	22	+	
Ceftiofur	100	3	31	32	32								32	1	–	
	200	4	33	33	35	62							41	14	–	
	<b>300</b>	8	107	118	102	110	104	99	92	90			103	9	+	<b>1000</b>
	400	3	121	117	120								119	2	+	
Sulfamethazine	<b>100</b>	8	65	65	79	81	81	83	75	76			76	7	+	<b>100</b>
	150	7	82	80	91	92	80	79	94				85	7	+	
	200	8	83	78	90	90	87	88	86	93			87	5	+	
Sulfadiazine	50	3	55	50	54								53	3	–	
	<b>100</b>	8	94	89	89	88	87	82	90	94			89	4	+	<b>100</b>
	150	3	95	99	97								97	2	+	
Oxytetracycline	100	8	60	57	51	54	57	56	52	51			55	3	+/–	
	<b>200</b>	8	84	77	82	80	91	74	78	74			80	6	+	<b>100</b>
	300	3	98	96	98								97	1	+	
	<b>100</b>	8	77	78	70	77	84	78	87	91			80	7	+	<b>100</b>
	200	8	60	65	102	95	98	102	102	96			90	17	+	

Doxycycline	300	8	91	97	114	111	113	111	114	114			108	9	+	
	400	3	112	108	110								110	2	+	
Neomycin	15	3	70	79	76								75	5	+	
	25	10	103	106	97	87	101	99	96	105	95	96	99	6	+	500
	50	3	110	115	114								113	3	+	
Apramycin	500	8	122	120	117	127	127	122	125	122			123	3	+	1000
	1000	3	126	130	129								128	2	+	
	1500	3	128	125	128								127	2	+	
Tylosin	25	3	59	58	60								59	1	+	
	50	8	94	92	95	91	95	93	91	87			92	3	+	100
	75	3	110	97	104								104	7	+	
Lincomycin	200	8	65	66	67	62	66	69	58	65			65	3	+	100
	300	8	78	77	71	66	82	71	72	70			73	5	+	
	400	3	78	79	78								78	1	+	