

Table S1: Primers used for the detection of genes encoding the production of ESBL

Gene		Sequence (5'→ 3')	Size (bp)	Reference
<i>bla</i> <sub>TEM</sub>	F	ATTCTTGAAGACGAAAGGGC	1150	[40]
	R	ACGCTCAGTGGAACGAAAAC		
<i>bla</i> <sub>SHV</sub>	F	CACTCAAGGATGTATTGTG	885	[41]
	R	TTAGCGTTGCCAGTGCTCG		
<i>bla</i> <sub>OXA</sub>	F	ACACAATACATATCAACTTCGC	813	[42]
	R	AGTGTGTTTAGAATGGTGATC		
<i>bla</i> <sub>CTX-M-U</sub>	F	CGATGTGCAGTACCAAGTAA	585	[43]
	R	TTAGTGACCAGAATCAGCGG		
<i>bla</i> <sub>CTX-M-2</sub>	F	ATGATGACTCAGAGCATTCG	876	[43]
	R	TCAGAAACCGTGGGTAC		
<i>bla</i> <sub>CTX-M-3</sub>	F	GTTACAATGTGTGAGAAGCAG	1017	[43]
	R	CCGTTTCCGCTATTACAAAC		
<i>bla</i> <sub>CTX-M-8</sub>	F	TGATGAGACATCGCGTTAAG	873	[43]
	R	TAACCGTCGGTGACGATTTT		
<i>bla</i> <sub>CTX-M-9</sub>	F	GTGACAAAGAGAGTGCAACGG	857	[43]
	R	ATGATTCTCGCCGCTGAAGCC		
<i>bla</i> <sub>CTX-M-10</sub>	F	CCGCGCTACACTTTGTGGC	944	[43]
	R	TTACAAACCGTTGGTGACG		

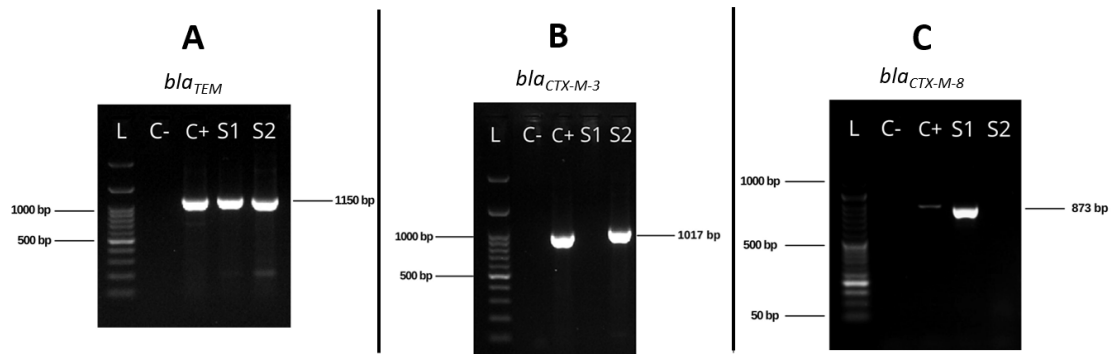


Figure S1: PCR amplification of  $\beta$ -lactamase genes harboring *bla*<sub>TEM</sub>, *bla*<sub>CTX-M-8</sub> and *bla*<sub>CTX-M-3</sub> genes in *Shigella* spp. (S1) isolate from a dog faecal sample and *E. coli* (S2) isolate from a water sample. L, 100 bp DNA ladder, C-, negative control, C+, positive control. A) *bla*<sub>TEM</sub> (1150 bp), B) *bla*<sub>CTX-M-3</sub> (1017 bp), C) *bla*<sub>CTX-M-8</sub> (800 bp) amplification products.