Supplementary Table S1. Epidemiological, phenotypic and antimicrobial interaction characteristics of the 14 multidrug-resistant *Salmonella* Typhimurium isolates selected for checkerboard assays.

Strain	Phagotype	*Tet* genes		Interaction	Lowest inhibitory combination		MIC CAR (mg/mL)	MIC TET (µg/mL)	FIC CAR	FIC TET	FICI	Resistotype
		tetA	*tetB*		CAR (mg/mL)	TET (µg/mL)						
1	**193**	**x**	**x**	**A**	**2**	**128**	**8**	**256**	**0.25**	**0.5**	**0.75**	**S-CF-TET-SXT-AMP-E-CHL**
2	104b	x	x	I	0.125	256	1	256	0.125	1	1.125	S-CF-TET-AMP-E
3	**193**	**x**	**x**	**S**	**2**	**64**	**8**	**256**	**0.25**	**0.25**	**0.5**	**S-CF-TET-SXT-AMP-E-CHL**
4	193	x	x	I	1	128	2	128	0.5	1	1.5	S-CF-TET-SXT-AMP-E-CHL
5	U311	x	x	A	2	64	8	128	0.25	0.5	0.75	S-CF-TET-AMP-CHL
6	**PNR**	**x**	**x**	**I**	**1**	**128**	**4**	**128**	**0.25**	**1**	**1.25**	**S-CF-TET-SXT-AMP-E-CHL**
7	**138**	**x**	**x**	**S**	**2**	**32**	**8**	**128**	**0.25**	**0.25**	**0.5**	**S-TET-SXT-AMP-E-CHL**
8	U311	x	x	An	1	512	1	256	1	2	3	S-CF-TET-SXT-AMP-E-CHL
9	U311	x	x	A	0.25	128	1	256	0.25	0.5	0.75	S-CF-TET-SXT-AMP-E-CHL
10	193	x	x	A	2	256	4	512	0.5	0.5	1	S-CF-TET-SXT-AMP-E-CHL
11	193	x	x	A	0.5	128	4	256	0.125	0.5	0.625	S-CF-TET-SXT-AMP-E-CHL
12	U311	x	x	A	0.5	32	1	512	0.5	0.0625	0.5625	S-TET-AMP-E-CHL
13	**193**	**x**	**x**	**A**	**1**	**128**	**4**	**256**	**0.25**	**0.5**	**0.75**	**S-CF-TET-SXT-AMP-E-CHL**
14	**U311**	**x**	**x**	**I**	**4**	**32**	**4**	**128**	**1**	**0.25**	**1.25**	**S-CF-TET-AMP-E-CHL**

Abbreviations: A, additivity; I, indifference; S, synergy; An, Antagonism; MIC, minimum inhibitory concentration; FIC, fractional inhibitory concentration; FICI, fractional inhibitory concentration index; CAR, carvacrol; S, streptomycin; CF, ciprofloxacin; TET, tetracycline; SXT, trimethoprim/sulfamethoxazole; AMP, ampicillin; E, erythromycin; CHL, chloramphenicol. Interpretation criteria (EUCAST 2000): synergistic (FICI ≤ 0.5), additive (0.5 < FICI ≤ 1), indifferent (1 < FICI ≤ 2), antagonistic (FICI > 2). Strains selected for the gene expression experiments are highlighted in bold.