

Table S1. The results of ciprofloxacin minimum inhibitory concentration, MLST type and resistance genotype by WGS for clinical ciprofloxacin-resistant *S. Typhimurium*

Isolate ID	Year of isolation	Patient status	MLST type	CIP MIC (mg/L)	Fluroquinolone resistance mechanisms			Other AMR gene	
					QRDR mutations in:		PMQRs		
					GyrA	ParC			
					Ser 83	Asp 87	Thr 57		
270/19	2019	patient	19	0.38	-	-	-	<i>qnrB19</i> <i>aac(6')-Iaa</i>	
383/19	2019	patient	19	0.25	Tyr	-	-	<i>blaTEM-1A</i> , CARB-2, <i>sul1</i> , <i>tet(G)</i> , <i>floR</i> , <i>aadA2</i> , <i>aac(6')-Iaa</i>	
138/18	2018	convalescent	19	0.19	-	Asn	-	CARB-2, <i>sul1</i> , <i>tet(G)</i> , <i>floR</i> , <i>aadA2</i> , <i>aac(6')-Iaa</i>	
29/19	2019	ND	19	0.19	-	Asn	-	CARB-2, <i>sul1</i> , <i>tet(G)</i> , <i>floR</i> , <i>aadA2</i> , <i>aac(6')-Iaa</i>	
94/19	2019	patient	19	0.19	-	Asn	-	CMY-2, CARB-2, <i>sul1</i> , <i>tet(G)</i> , <i>floR</i> , <i>aadA2</i> , <i>aac(6')-Iaa</i>	
186/18	2018	patient	19	0.125	-	Asn	-	<i>sul1</i> , <i>aadA2</i> , <i>aac(6')-Iaa</i>	
297/18	2018	patient	19	0.125	-	Asn	-	CARB-2, <i>sul1</i> , <i>tet(G)</i> , <i>floR</i> , <i>aadA2</i> , <i>aac(6')-Iaa</i>	
310/18	2018	patient	19	0.125	-	Asn	-	<i>aac(6')-Iaa</i>	
358/18	2018	patient	19	0.125	-	Asn	-	CARB-2, <i>sul1</i> , <i>tet(G)</i> , <i>floR</i> , <i>aadA2</i> , <i>aac(6')-Iaa</i>	
227/19	2019	patient	19	0.125	-	Asn	-	CMY-2, <i>sul1</i> , <i>tet(G)</i> , <i>floR</i> , <i>aadA2</i> , <i>aac(6')-Iaa</i>	
350/19	2019	patient	19	0.125	-	Asn	-	CARB-2, <i>sul1</i> , <i>tet(G)</i> , <i>floR</i> , <i>aadA2</i> , <i>aac(6')-Iaa</i>	
445/19	2019	patient	19	0.125	-	Asn	-	<i>blaTEM-1A</i> , CARB-2, <i>sul1</i> , <i>tet(G)</i> , <i>floR</i> , <i>aadA2</i> , <i>aac(6')-Iaa</i>	

MIC – minimum inhibitory concentration; CIP – ciprofloxacin; PMQR – plasmid-mediated quinolone resistance; ND- not detected; AMR – antimicrobial resistance;

Table S2. The results of ciprofloxacin minimum inhibitory concentration, MLST type and resistance genotype by WGS for clinical ciprofloxacin-resistant monophasic *S. Typhimurium* 1,4,[5],12:i:-

Isolate ID	Year of isolation	Patient status	MLST type	CIP MIC (mg/L)	Fluroquinolone resistance mechanisms			Other AMR gene	
					QRDR mutations in:		PMQRs		
					GyrA				
					Ser 83	Asp 87	Thr 57		
531/19	2019	patient	34	0.5	-	-	-	<i>qnrB19</i> <i>blaTEM-1B, sul2, aph(6)-Id, aph(3")-Ib, aac(6')-Iaa</i>	
83/18	2018	patient	34	0.25	-	-	-	<i>qnrB19</i> <i>blaTEM-1B, sul2, tet(B), aph(6)-Id, aph(3")-Ib, aac(6')-Iaa</i>	
463/18	2018	convalescent	34	0.25	Tyr	-	-	- <i>blaTEM-1B, sul2, sul3, tet(B), cmLA1, aada1, aada2, ant(3")-Ia, aph(6)-Id, aph(3")-Ib, aac(6')-Iaa</i>	
125/18	2018	patient	34	0.38	-	-	-	<i>qnrB19</i> <i>blaTEM-1B, sul2, tet(B), aph(6)-Id, aph(3")-Ib, aac(6')-Iaa</i>	
408/18	2018	patient	34	0.38	-	-	-	<i>qnrB19, qnrB36</i> <i>blaTEM-1B, sul2, aph(6)-Id, aph(3")-Ib, aac(6')-Iaa</i>	
450/18	2018	convalescent	34	0.38	Tyr	-	-	<i>sul2, sul3, tet(B), cmLA1, aada2, ant(3")-Ia, aph(6)-Id, aph(3")-Ib, aac(6')-Iaa</i>	

MIC – minimum inhibitory concentration; CIP – ciprofloxacin; PMQR – plasmid-mediated quinolone resistance; AMR – antimicrobial resistance;

Table S3. The results of ciprofloxacin minimum inhibitory concentration (MIC), MLST type and resistance genotype by WGS for clinical ciprofloxacin-resistant *S. Hadar*

Isolate ID	Year of isolation	Patient status	MLST type	CIP MIC (mg/L)	Fluroquinolone resistance mechanisms			PMQRs	Other AMR gene		
					QRDR mutations in:						
					GyrA		ParC				
					Ser 83	Asp 87	Thr 57				
79/18	2018	patient	33	0.25	-	-	Ser	<i>qnrB19, qnrB36, qnrB82</i>	<i>tet(A), aph(6)-Id, aph(3")-Ib, aac(6')-Iaa</i>		
86/19	2019	patient	33	0.25	-	-	Ser	<i>qnrB19, qnrB36</i>	<i>tet(A), aph(6)-Id, aph(3")-Ib, aac(6')-Iaa</i>		
113/19	2019	patient	33	0.25	-	-	Ser	<i>qnrB19</i>	<i>tet(A), aph(6)-Id, aph(3")-Ib, aac(6')-Iaa</i>		
229/19	2019	patient	33	0.25	-	-	Ser	<i>qnrB19</i>	<i>tet(A), aph(6)-Id, aph(3")-Ib, aac(6')-Iaa</i>		
78/18	2018	patient	33	0.19	-	-	Ser	<i>qnrB19, qnrB36, qnrB82</i>	<i>tet(A), aph(6)-Id, aph(3")-Ib, aac(6')-Iaa</i>		
92/18	2018	patient	33	0.19	-	-	Ser	<i>qnrB19, qnrB36, qnrB67, qnrB82</i>	<i>tet(A), aph(6)-Id, aph(3")-Ib, aac(6')-Iaa</i>		
197/18	2018	patient	9181	0.19	-	-	Ser	-	<i>aac(6')-Iaa</i>		
85/19	2019	patient	33	0.19	-	-	Ser	-	<i>tet(A), aph(6)-Id, aph(3")-Ib, aac(6')-Iaa</i>		
112/19	2019	patient	33	0.19	-	-	Ser	<i>qnrB19, qnrB67, qnrB82</i>	<i>tet(A), aph(6)-Id, aph(3")-Ib, aac(6')-Iaa</i>		
410/19	2019	convalescent	33	0.19	-	Asn	Ser	-	<i>tet(A), aph(6)-Id, aph(3")-Ib, aac(6')-Iaa</i>		
411/19	2019	convalescent	33	0.19	-	Asn	Ser	-	<i>tet(A), aph(6)-Id, aph(3")-Ib, aac(6')-Iaa</i>		
328/19	2019	convalescent	33	0.125	-	Tyr	Ser	-	<i>tet(A), aph(6)-Id, aph(3")-Ib, aac(6')-Iaa</i>		

MIC – minimum inhibitory concentration; CIP – ciprofloxacin; PMQR – plasmid-mediated quinolone resistance; AMR – antimicrobial resistance;

Table S4. The results of ciprofloxacin minimum inhibitory concentration (MIC), MLST type and resistance genotype by WGS for clinical ciprofloxacin-resistant *S. Infantis*

Isolate ID	Year of isolation	Patient status	MLST type	CIP MIC (mg/L)	Fluroquinolone resistance mechanisms			Other AMR gene	
					QRDR mutations in:		PMQRs		
					GyrA				
					Ser 83	Asp 87	Thr 57		
8/19	2019	patient	32	3	-	Tyr	Ser	<i>qnrS1</i> <i>bla_{TEM-1B}</i> , <i>sul1</i> , <i>tet(A)</i> , <i>ant(3")-Ia</i> , <i>aac(6')-Iaa</i>	
104/19	2019	patient	32	3	Tyr	-	Ser	<i>qnrS1</i> <i>bla_{TEM-1B}</i> , <i>sul1</i> , <i>tet(A)</i> , <i>ant(3")-Ia</i> , <i>aac(6')-Iaa</i>	
227/18	2018	convalescent	32	1	-	Tyr	Ser	- <i>sul1</i> , <i>tet(A)</i> , <i>ant(3")-Ia</i> , <i>aac(6')-Iaa</i>	
165/18	2018	patient	32	0.5	-	Tyr	Ser	- <i>sul1</i> , <i>tet(A)</i> , <i>ant(3")-Ia</i> , <i>aac(6')-Iaa</i>	
277/18	2018	patient	32	0.5	-	Tyr	Ser	- <i>sul1</i> , <i>tet(A)</i> , <i>ant(3")-Ia</i> , <i>aac(6')-Iaa</i>	
37/19	2019	carrier	32	0.5	-	Tyr	Ser	- <i>sul1</i> , <i>tet(A)</i> , <i>ant(3")-Ia</i> , <i>aac(6')-Iaa</i>	
68/19	2019	ND	32	0.5	-	Tyr	Ser	- <i>sul1</i> , <i>tet(A)</i> , <i>ant(3")-Ia</i> , <i>aac(6')-Iaa</i>	
102/19	2019	patient	32	0.5	Tyr	-	Ser	- <i>bla_{TEM-1C}</i> , <i>sul1</i> , <i>sul2</i> , <i>tet(A)</i> , <i>floR</i> , <i>ant(3")-Ia</i> , <i>aac(6')-Iaa</i>	
150/19	2019	ND	32	0.5	Tyr	-	Ser	- <i>sul1</i> , <i>tet(A)</i> , <i>ant(3")-Ia</i> , <i>aac(6')-Iaa</i>	
52/18	2018	patient	32	0.38	-	Tyr	Ser	- <i>sul1</i> , <i>tet(A)</i> , <i>ant(3")-Ia</i> , <i>aac(6')-Iaa</i>	
69/18	2018	patient	32	0.38	-	Tyr	Ser	- <i>sul1</i> , <i>tet(A)</i> , <i>ant(3")-Ia</i> , <i>aac(6')-Iaa</i>	
111/18	2018	convalescent	32	0.38	-	Tyr	Ser	- <i>sul1</i> , <i>tet(A)</i> , <i>ant(3")-Ia</i> , <i>aac(6')-Iaa</i>	
124/18	2018	convalescent	32	0.38	-	Tyr	Ser	- <i>sul1</i> , <i>tet(A)</i> , <i>ant(3")-Ia</i> , <i>aac(6')-Iaa</i>	
127/18	2018	convalescent	32	0.38	-	Tyr	Ser	- <i>sul1</i> , <i>tet(A)</i> , <i>ant(3")-Ia</i> , <i>aac(6')-Iaa</i>	
190/18	2018	patient	32	0.38	-	Tyr	Ser	- <i>sul1</i> , <i>tet(A)</i> , <i>ant(3")-Ia</i> , <i>aac(6')-Iaa</i>	
215/18	2018	patient	32	0.38	-	Tyr	Ser	- <i>sul1</i> , <i>tet(A)</i> , <i>ant(3")-Ia</i> , <i>aac(6')-Iaa</i>	
271/18	2018	patient	32	0.38	-	Tyr	Ser	- <i>sul1</i> , <i>tet(A)</i> , <i>ant(3")-Ia</i> , <i>aac(6')-Iaa</i>	
275/18	2018	patient	32	0.38	-	Tyr	Ser	- <i>sul1</i> , <i>tet(A)</i> , <i>ant(3")-Ia</i> , <i>aac(6')-Iaa</i>	
473/18	2018	patient	32	0.38	-	Tyr	Ser	- <i>sul1</i> , <i>tet(A)</i> , <i>ant(3")-Ia</i> , <i>aac(6')-Iaa</i>	
58/19	2019	patient	32	0.38	-	Tyr	Ser	- <i>sul1</i> , <i>tet(A)</i> , <i>ant(3")-Ia</i> , <i>aac(6')-Iaa</i>	
136/19	2019	ND	32	0.38	Tyr	-	Ser	- <i>sul1</i> , <i>tet(A)</i> , <i>ant(3")-Ia</i> , <i>aac(6')-Iaa</i>	
137/19	2019	patient	32	0.38	Tyr	-	Ser	- <i>sul1</i> , <i>tet(A)</i> , <i>ant(3")-Ia</i> , <i>aac(6')-Iaa</i>	
162/19	2019	patient	32	0.38	Tyr	-	Ser	- <i>sul1</i> , <i>tet(A)</i> , <i>ant(3")-Ia</i> , <i>aac(6')-Iaa</i>	
224/19	2019	patient	32	0.38	Tyr	-	Ser	- <i>sul1</i> , <i>tet(A)</i> , <i>ant(3")-Ia</i> , <i>aac(6')-Iaa</i>	
343/19	2019	patient	32	0.38	Tyr	-	Ser	- <i>sul1</i> , <i>tet(A)</i> , <i>ant(3")-Ia</i> , <i>aac(6')-Iaa</i>	

368/19	2019	carrier	32	0.38	Tyr	-	Ser	-	<i>sul1, tet(A), ant(3")-Ia, aac(6')-Iaa</i>
518/19	2019	carrier	32	0.38	Tyr	-	Ser	-	<i>sul1, tet(A), ant(3")-Ia, aac(6')-Iaa</i>
158/18	2018	patient	32	0.25	-	Tyr	Ser	-	<i>sul1, tet(A), ant(3")-Ia, aac(6')-Iaa</i>
181/19	2019	contact	32	0.25	Tyr	-	Ser	-	-
221/19	2019	patient	32	0.25	Tyr	-	Ser	-	<i>sul1, tet(A), ant(3")-Ia, aac(6')-Iaa</i>

MIC – minimum inhibitory concentration; CIP – ciprofloxacin; PMQR – plasmid-mediated quinolone resistance; AMR – antimicrobial resistance;

Table S5. The results of ciprofloxacin minimum inhibitory concentration (MIC), MLST type and resistance genotype by WGS for clinical ciprofloxacin-resistant *S. Newport*

Isolate ID	Year of isolation	Patient status	MLST type	CIP MIC (mg/L)	Fluroquinolone resistance mechanisms			Other AMR gene	
					QRDR mutations in:		PMQRs		
					GyrA				
					Ser 83	Asp 87	Thr 57		
93/19	2019	carrier	166	0.75	-	-	Ser	<i>qnrB19</i>	
84/19	2019	patient	166	0.38	-	-	Ser	<i>qnrB19, qnrB36</i>	
116/19	2019	patient	166	0.19	-	-	Ser	<i>qnrB19, qnrB36</i>	
118/19	2019	patient	166	0.19	-	-	Ser	<i>qnrB19</i>	
382/19	2019	patient	166	0.19	Tyr	-	Ser	<i>sul2, tet(A), ant(3')-Ia, aac(6')-Iaa</i>	

MIC – minimum inhibitory concentration; CIP – ciprofloxacin; PMQR – plasmid-mediated quinolone resistance; AMR – antimicrobial resistance;

Table S6. The results of ciprofloxacin minimum inhibitory concentration (MIC), MLST type and resistance genotype by WGS for clinical ciprofloxacin-resistant *S. Virchow*

Isolate ID	Year of isolation	Patient status	MLST type	CIP MIC (mg/L)	Fluroquinolone resistance mechanisms			Other AMR gene	
					QRDR mutations in:		PMQRs		
					GyrA				
					Ser 83	Asp 87	Thr 57		
10/19	2019	patient	16	0.25	-	Asn	-	-	
9/19	2019	patient	16	0.19	-	Asn	-	-	
11/18	2018	patient	16	0.125	-	Tyr	-	-	

MIC – minimum inhibitory concentration; CIP – ciprofloxacin; PMQR – plasmid-mediated quinolone resistance; AMR – antimicrobial resistance;

Table S7. The results of ciprofloxacin minimum inhibitory concentration (MIC), MLST type and resistance genotype by WGS for clinical ciprofloxacin-resistant *S. Enteritidis*

Isolate ID	Year of isolation	Patient status	MLST type	CIP MIC (mg/L)	Fluroquinolone resistance mechanisms			Other AMR gene	
					QRDR mutations in:				
					GyrA		ParC		
					Ser 83	Asp 87	Thr 57		
232/19									
314/19	2019	convalescent	11	0.5	Tyr	-	-	<i>aac(6')-Iaa</i>	
335/19	2019	convalescent	11	0.5	Tyr	-	-	<i>aac(6')-Iaa</i>	
228/18	2018	patient	11	0.38	Tyr	-	-	<i>aac(6')-Iaa</i>	
248/18	2018	patient	11	0.38	-	-	-	<i>qnrB19</i>	
315/18	2018	patient	11	0.38	Tyr	-	-	<i>aac(6')-Iaa</i>	
1/19	2019	patient	11	0.25	Tyr	-	-	<i>aac(6')-Iaa</i>	
18/19	2019	patient	11	0.25	Tyr	-	-	<i>aac(6')-Iaa</i>	
24/19	2019	patient	11	0.25	Tyr	-	-	<i>aac(6')-Iaa</i>	
60/19	2019	patient	11	0.25	Tyr	-	-	<i>aac(6')-Iaa</i>	
105/19	2019	patient	11	0.25	Tyr	-	-	<i>aac(6')-Iaa</i>	
156/19	2019	patient	11	0.25	Tyr	-	-	<i>aac(6')-Iaa</i>	
259/19	2019	patient	11	0.25	Tyr	-	-	<i>aac(6')-Iaa</i>	
102/18	2018	patient	11	0.19	Tyr	-	-	<i>aac(6')-Iaa</i>	
108/18	2018	patient	11	0.19	Tyr	-	-	<i>aac(6')-Iaa</i>	
276/18	2018	patient	11	0.19	Tyr	-	-	<i>aac(6')-Iaa</i>	
242/18	2018	patient	11	0.19	Tyr	-	-	<i>aac(6')-Iaa</i>	
123/19	2019	patient	11	0.19	Tyr	-	-	<i>aac(6')-Iaa</i>	
139/19	2019	patient	11	0.19	Tyr	-	-	<i>aac(6')-Iaa</i>	
167/19	2019	patient	11	0.19	Tyr	-	-	<i>aac(6')-Iaa</i>	
169/19	2019	patient	11	0.19	Tyr	-	-	<i>aac(6')-Iaa</i>	
200/19	2019	patient	11	0.19	Tyr	-	-	<i>aac(6')-Iaa</i>	
274/19	2019	convalescent	11	0.19	Tyr	-	-	<i>aac(6')-Iaa</i>	

286/19	2019	patient	11	0.19	Tyr	-	-	-	<i>aac(6')-Iaa</i>
308/19	2019	convalescent	11	0.19	Tyr	-	-	-	<i>aac(6')-Iaa</i>
318/19	2019	convalescent	11	0.19	Tyr	-	-	-	<i>aac(6')-Iaa</i>
324/19	2019	convalescent	11	0.19	-	Tyr	-	-	<i>aac(6')-Iaa</i>
357/19	2019	patient	11	0.19	Tyr	-	-	-	<i>aac(6')-Iaa</i>
358/19	2019	patient	11	0.19	Tyr	-	-	-	<i>aac(6')-Iaa</i>
353/19	2019	patient	11	0.125	Tyr	-	-	-	<i>aac(6')-Iaa</i>
355/19	2019	patient	11	0.125	Tyr	-	-	-	<i>aac(6')-Iaa</i>
364/19	2019	patient	11	0.125	Tyr	-	-	-	<i>aac(6')-Iaa</i>

MIC – minimum inhibitory concentration; CIP – ciprofloxacin; PMQR – plasmid-mediated quinolone resistance; AMR – antimicrobial resistance;