

## Supplementary material

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## Strong antibiotic resistance profiles in *Salmonella* spp. isolated from ground beef in Central Mexico

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# Supplementary material

Table S1

Strong antibiotic resistance profiles in *Salmonella* spp. isolated from ground beef in Central Mexico

Carlos M. Campos-Granados, Cindy F. Hernández-Pérez, María Salud Rubio-Lozano, Luisa María Sánchez-Zamorano, Enrique Jesús Delgado-Suárez

Table S1. Metadata and assembly quality attributes of *Salmonella* isolates (116) obtained from ground beef in Central Mexico

Organism	Isolate name	Serovar	Raw reads accessions	State	No. of contigs	Genome size, bp	% GC	N50	L50	Coding sequences	MLST	Genes/Mb
Salmonella enterica	MPSPGB7-1	Adelaide	SRR18856410	Morelos	44	4 542 300.00	52.33	295 800	5	4 508	440	1 008
Salmonella enterica	MPSPGB7-2	Adelaide	SRR18856411	Morelos	43	4 545 614.00	52.34	295 800	5	4 516	440	1 007
Salmonella enterica	MPSPGB8-2	Adelaide	SRR18856426	Morelos	40	4 556 369.00	52.33	295 790	5	4 529	440	1 006
Salmonella enterica	MPSPGB8-3	Adelaide	SRR18856424	Morelos	41	4 553 113.00	52.32	295 790	5	4 518	440	1 008
Salmonella enterica	MPSPGB8-5	Adelaide	SRR18856409	Morelos	41	4 553 033.00	52.32	295 790	5	4 524	440	1 006
Salmonella enterica	MPSPGB9-1	Adelaide	SRR18856408	Morelos	49	4 615 073.00	52.37	295 799	5	4 589	440	1 006
Salmonella enterica	MPSPGB9-2	Adelaide	SRR18856406	Morelos	50	4 617 299.00	52.37	295 799	5	4 590	440	1 006
Salmonella enterica	MPSPGB10-2	Adelaide	SRR18856391	Morelos	42	4 545 822.00	52.34	295 800	5	4 509	440	1 008
Salmonella enterica	MPSPGB30-4	Adelaide	SRR20081773	México	47	4 606 408.00	52.37	295 799	5	4 571	440	1 008
Salmonella enterica	MPSPGB30-5	Adelaide	SRR20081772	México	43	4 610 397.00	52.38	295 799	5	4 578	440	1 007
Salmonella enterica	MPSPGB30-7	Adelaide	SRR20081770	México	47	4 605 428.00	52.37	295 799	5	4 578	440	1 006
Salmonella enterica	MPSPGB46	Adelaide	SRR23930568	Guerrero	63	4 843 254.00	52.21	184 756	8	4 883	64	954
Salmonella enterica	MPSPGB53-2	Adelaide	SRR20081719	Hidalgo	43	4 582 927.00	52.34	295 616	5	4 571	440	1 003
Salmonella enterica	MPSPGB13-1	Agona	SRR18856392	Puebla	56	4 866 677.00	52.01	233 408	7	4 951	13	983
Salmonella enterica	MPSPGB13-2	Agona	SRR18856428	Puebla	44	4 858 491.00	52.01	262 503	6	4 942	13	983
Salmonella enterica	MPSPGB13-3	Agona	SRR18856422	Puebla	47	4 858 534.00	52.02	215 521	7	4 939	13	984
Salmonella enterica	MPSPGB1-1	Anatum	SRR18856396	Ciudad de México	53	4 863 675.00	52.22	293 735	7	4 938	64	985
Salmonella enterica	MPSPGB1-2	Anatum	SRR18856394	Ciudad de México	56	4 862 820.00	52.22	293 531	6	4 923	64	988
Salmonella enterica	MPSPGB5-2	Anatum	SRR18856425	Morelos	43	4 759 833.00	52.17	340 681	6	4 798	64	992
Salmonella enterica	MPSPGB6-2	Anatum	SRR18856414	Morelos	44	4 784 073.00	52.17	328 652	6	4 833	64	990
Salmonella enterica	MPSPGB6-3	Anatum	SRR18856413	Morelos	40	4 781 400.00	52.17	368 917	6	4 836	64	989
Salmonella enterica	MPSPGB7-3	Anatum	SRR18856418	Morelos	42	4 762 975.00	52.17	397 422	6	4 810	64	990
Salmonella enterica	MPSPGB12-1	Anatum	SRR18856402	Puebla	51	4 775 354.00	52.26	293 735	7	4 819	64	991
Salmonella enterica	MPSPGB20-1	Anatum	SRR23930571	Ciudad de México	58	4 869 195.00	52.23	222 732	7	4 918	64	990
Salmonella enterica	MPSPGB24-1	Anatum	SRR20081756	Ciudad de México	52	4 735 314.00	52.21	405 123	4	4 770	64	993
Salmonella enterica	MPSPGB24-2	Anatum	SRR20081734	Ciudad de México	46	4 828 447.00	52.15	404 859	4	4 887	64	988
Salmonella enterica	MPSPGB25-1	Anatum	SRR23930570	Ciudad de México	37	4 838 921.00	52.17	423 094	5	4 883	64	991
Salmonella enterica	MPSPGB33-1	Anatum	SRR20081759	México	44	5 007 002.00	51.87	404 846	5	5 097	64	982
Salmonella enterica	MPSPGB35-1	Anatum	SRR20081754	México	32	4 622 618.00	52.15	404 870	3	4 605	64	1 004
Salmonella enterica	MPSPGB35-2	Anatum	SRR20081753	México	32	4 622 236.00	52.15	450 784	3	4 599	64	1 005
Salmonella enterica	MPSPGB37-2	Anatum	SRR20081749	México	34	4 623 412.00	52.15	388 760	5	4 595	64	1 006
Salmonella enterica	MPSPGB38-1	Anatum	SRR20081748	México	33	4 622 520.00	52.15	396 863	4	4 597	64	1 006
Salmonella enterica	MPSPGB38-2	Anatum	SRR20081747	México	30	4 622 109.00	52.15	404 870	4	4 608	64	1 003
Salmonella enterica	MPSPGB38-3	Anatum	SRR20081746	México	30	4 622 711.00	52.15	450 227	4	4 599	64	1 005
Salmonella enterica	MPSPGB38-4	Anatum	SRR20081744	México	32	4 622 409.00	52.15	396 863	4	4 606	64	1 004
Salmonella enterica	MPSPGB39-1	Anatum	SRR20081743	México	75	4 997 729.00	51.85	169 359	9	5 113	64	977
Salmonella enterica	MPSPGB39-2	Anatum	SRR20081742	México	76	4 996 918.00	51.85	194 188	9	5 119	64	976
Salmonella enterica	MPSPGB39-3	Anatum	SRR20081741	México	79	4 997 765.00	51.85	194 253	9	5 124	64	975
Salmonella enterica	MPSPGB39-4	Anatum	SRR20081740	México	74	4 998 159.00	51.84	200 422	8	5 110	64	978
Salmonella enterica	MPSPGB42	Anatum	SRR20081732	Tlaxcala	77	4 998 566.00	51.85	169 359	10	5 123	64	976
Salmonella enterica	MPSPGB45	Anatum	SRR20081730	Guerrero	31	4 743 450.00	52.15	450 693	3	4 753	64	998
Salmonella enterica	MPSPGB48-1	Anatum	SRR20081729	Guerrero	26	4 660 040.00	52.16	452 558	3	4 649	64	1 002
Salmonella enterica	MPSPGB48-2	Anatum	SRR20081728	Guerrero	29	4 619 333.00	52.2	404 900	3	4 593	64	1 006
Salmonella enterica	MPSPGB49	Anatum	SRR20081727	Guerrero	50	4 803 441.00	52.07	386 738	6	4 875	64	985
Salmonella enterica	MPSPGB29-2	Bovismorbificans	SRR20081777	México	40	4 715 280.00	52.19	218 538	8	4 652	150	1 014
Salmonella enterica	MPSPGB15-1	Derby	SRR18856400	Puebla	83	4 801 105.00	52.02	244 372	6	4 881	40	984
Salmonella enterica	MPSPGB15-2	Derby	SRR18856399	Puebla	82	4 800 977.00	52.02	316 438	5	4 873	40	985
Salmonella enterica	MPSPGB40-1	Derby	SRR20081739	México	73	4 809 136.00	52	215 907	6	4 860	40	990
Salmonella enterica	MPSPGB40-2	Derby	SRR20081738	México	66	4 808 467.00	52	307 066	6	4 862	40	989
Salmonella enterica	MPSPGB40-3	Derby	SRR20081737	México	70	4 809 058.00	52	307 131	7	4 873	40	987

# Supplementary material

Organism	Isolate name	Serovar	Raw reads accessions	State	No. of contigs	Genome size, bp	% GC	N50	L50	Coding sequences	MLST	Genes/Mb
Salmonella enterica	MPSPGB41-1	Derby	SRR20081736	México	60	4 958 998.00	51.96	349 610	5	5 057	40	981
Salmonella enterica	MPSPGB41-2	Derby	SRR20081735	México	58	4 959 279.00	51.95	349 610	5	5 048	40	982
Salmonella enterica	MPSPGB41-3	Derby	SRR20081733	México	61	4 959 374.00	51.96	349 504	5	5 066	40	979
Salmonella enterica	MPSPGB34-3	Give	SRR20081755	México	35	4 519 937.00	52.18	375 998	4	4 447	2589	1 016
Salmonella enterica	MPSPGB36	Give	SRR20081751	México	34	4 519 221.00	52.18	375 880	4	4 435	2589	1 019
Salmonella enterica	MPSPGB31-2	Goldcoast	SRR20081768	México	41	4 663 744.00	52.21	290 066	6	4 642	358	1 005
Salmonella enterica	MPSPGB31-4	Goldcoast	SRR20081765	México	36	4 663 174.00	52.21	320 405	5	4 645	358	1 004
Salmonella enterica	MPSPGB31-5	Goldcoast	SRR20081764	México	35	4 663 409.00	52.21	340 734	5	4 642	358	1 005
Salmonella enterica	MPSPGB31-6	Goldcoast	SRR20081763	México	38	4 662 731.00	52.21	246 339	6	4 640	358	1 005
Salmonella enterica	MPSPGB31-7	Goldcoast	SRR20081762	México	35	4 662 316.00	52.21	320 405	5	4 643	358	1 004
Salmonella enterica	MPSPGB16-1	Havana	SRR18856398	Ciudad de México	41	4 758 606.00	52.14	280 053	7	4 763	588	999
Salmonella enterica	MPSPGB16-2	Havana	SRR18856430	Ciudad de México	45	4 758 348.00	52.14	280 053	7	4 776	588	996
Salmonella enterica	MPSPGB16-3	Havana	SRR18856393	Ciudad de México	43	4 758 286.00	52.14	280 053	7	4 764	588	999
Salmonella enterica	MPSPGB16-4	Havana	SRR18856390	Ciudad de México	42	4 759 897.00	52.14	280 178	7	4 780	588	996
Salmonella enterica	MPSPGB16-5	Havana	SRR18856420	Ciudad de México	42	4 759 048.00	52.14	280 053	7	4 780	588	996
Salmonella enterica	MPSPGB14-1	I4, [S], 12:i:-	SRR18856419	Puebla	98	5 033 274.00	52.04	224 804	8	5 133	34	981
Salmonella enterica	MPSPGB14-2	I4, [S], 12:i:-	SRR18856401	Puebla	94	5 025 631.00	52.03	267 148	7	5 120	34	982
Salmonella enterica	MPSPGB54-1	I4, [S], 12:i:-	SRR20081717	Hidalgo	92	5 041 057.00	51.98	256 658	8	5 140	34	981
Salmonella enterica	MPSPGB4-2	Infantis	SRR18856407	Morelos	46	4 594 305.00	52.29	203 767	6	4 553	32	1 009
Salmonella enterica	MPSPGB10-3	Infantis	SRR18856427	Morelos	51	4 593 598.00	52.29	203 767	7	4 544	32	1 011
Salmonella enterica	MPSPGB10-4	Infantis	SRR18856421	Morelos	49	4 594 465.00	52.29	203 832	7	4 559	32	1 008
Salmonella enterica	MPSPGB10-5	Infantis	SRR18856423	Morelos	50	4 594 167.00	52.29	203 767	6	4 554	32	1 009
Salmonella enterica	MPSPGB10-6	Infantis	SRR18856404	Morelos	47	4 594 590.00	52.29	203 754	6	4 549	32	1 010
Salmonella enterica	MPSPGB10-7	Infantis	SRR18856403	Morelos	50	4 593 674.00	52.29	201 942	8	4 546	32	1 010
Salmonella enterica	MPSPGB26-1	Infantis	SRR20081708	Ciudad de México	51	4 582 818.00	52.27	201 777	6	4 530	32	1 012
Salmonella enterica	MPSPGB26-2	Infantis	SRR20081707	Ciudad de México	47	4 585 681.00	52.27	201 843	6	4 536	32	1 011
Salmonella enterica	MPSPGB37-1	Infantis	SRR20081750	México	40	4 616 355.00	52.18	215 482	6	4 562	32	1 012
Salmonella enterica	MPSPGB55-1	Infantis	SRR20081716	Hidalgo	46	4 667 926.00	52.24	201 836	7	4 656	32	1 003
Salmonella enterica	MPSPGB55-2	Infantis	SRR20081715	Hidalgo	43	4 669 465.00	52.24	202 371	8	4 652	32	1 004
Salmonella enterica	MPSPGB4-1	London	SRR18856412	Morelos	43	4 601 693.00	52.25	224 744	8	4 563	155	1 008
Salmonella enterica	MPSPGB9-3	London	SRR18856405	Morelos	50	4 607 807.00	52.25	224 744	7	4 574	155	1 007
Salmonella enterica	MPSPGB28-1	London	SRR20081712	México	41	4 653 826.00	52.18	242 115	8	4 641	155	1 003
Salmonella enterica	MPSPGB28-2	London	SRR23930569	México	47	4 657 535.00	52.19	237 134	8	4 645	155	1 003
Salmonella enterica	MPSPGB29-4	London	SRR20081775	México	46	4 625 889.00	52.22	224 744	8	4 600	155	1 006
Salmonella enterica	MPSPGB34-1	London	SRR20081758	México	60	4 655 536.00	52.18	189 645	8	4 663	155	998
Salmonella enterica	MPSPGB34-2	London	SRR20081757	México	43	4 650 824.00	52.18	237 134	7	4 638	155	1 003
Salmonella enterica	MPSPGB53-3	Missisipi	SRR20081718	Hidalgo	191	4 820 446.00	52.07	404 416	5	4 890	2194	986
Salmonella enterica	MPSPGB32-3	Muenchen	SRR20081760	México	45	4 937 531.00	51.75	400 610	6	4 993	112	989
Salmonella enterica	MPSPGB35-4	Muenchen	SRR20081752	México	35	4 716 041.00	52.02	309 949	5	4 704	112	1 003
Salmonella enterica	MPSPGB12-2	Newport	SRR18856429	Puebla	52	4 776 550.00	52.22	380 533	5	4 797	132	996
Salmonella enterica	MPSPGB27-1	Newport	SRR20081779	Ciudad de México	57	4 907 409.00	52.09	276 077	6	5 016	132	978
Salmonella enterica	MPSPGB27-2	Newport	SRR20081767	Ciudad de México	53	4 908 332.00	52.09	279 135	6	5 009	132	980
Salmonella enterica	MPSPGB27-3	Newport	SRR20081745	Ciudad de México	58	4 908 030.00	52.09	261 156	7	5 020	132	978
Salmonella enterica	MPSPGB27-4	Newport	SRR20081723	Ciudad de México	54	4 908 671.00	52.09	279 135	6	5 014	132	979
Salmonella enterica	MPSPGB29-3	Newport	SRR20081776	México	54	4 904 370.00	52.17	330 473	5	4 997	45	981
Salmonella enterica	MPSPGB31-1	Newport	SRR20081769	México	53	4 838 770.00	52.21	380 533	5	4 895	132	989
Salmonella enterica	MPSPGB31-3	Newport	SRR20081766	México	49	4 836 611.00	52.21	295 370	5	4 891	132	989
Salmonella enterica	MPSPGB43-1	Newport	SRR20081731	Querétaro	50	4 871 705.00	52.11	380 533	5	4 958	132	983
Salmonella enterica	MPSPGB56-1	Newport	SRR20081713	Hidalgo	51	4 812 831.00	52.21	380 533	5	4 850	132	992
Salmonella enterica	MPSPGB56-2	Newport	SRR20081711	Hidalgo	51	4 812 692.00	52.21	401 589	4	4 853	132	992
Salmonella enterica	MPSPGB56-3	Newport	SRR20081714	Hidalgo	51	4 812 459.00	52.21	380 533	5	4 860	132	990
Salmonella enterica	MPSPGB19-1	Panama	SRR18856397	Ciudad de México	51	4 737 204.00	52.21	214 384	7	4 736	48	1 000
Salmonella enterica	MPSPGB19-2	Panama	SRR18856395	Ciudad de México	57	4 736 915.00	52.21	210 585	8	4 738	48	1 000
Salmonella enterica	MPSPGB19-3	Panama	SRR20081778	Ciudad de México	46	4 631 328.00	52.21	214 384	7	4 620	48	1 002
Salmonella enterica	MPSPGB53-1	Panama	SRR20081720	Hidalgo	56	4 816 314.00	51.96	210 641	8	4 843	48	994
Salmonella enterica	MPSPGB30-1	Rissen	SRR20081774	México	55	5 120 412.00	51.8	326 894	6	5 236	469	978

# Supplementary material

Organism	Isolate name	Serovar	Raw reads accessions	State	No. of contigs	Genome size, bp	% GC	N50	L50	Coding sequences	MLST	Genes/Mb
Salmonella enterica	MPSPGB47-1	Rissen	SRR23930567	Guerrero	47	4 773 510.00	52.09	315 749	5	4 789	469	997
Salmonella enterica	MPSPGB47-2	Rissen	SRR23930566	Guerrero	44	4 770 192.00	52.1	294 837	5	4 782	469	998
Salmonella enterica	MPSPGB48-3	Rissen	SRR23930565	Guerrero	41	4 774 107.00	52.1	563 183	4	4 801	469	994
Salmonella enterica	MPSPGB30-6	Seftenberg	SRR20081771	México	52	4 821 074.00	52.08	268 669	6	4 876	14	989
Salmonella enterica	MPSPGB32-1	Seftenberg	SRR20081724	México	52	4 819 184.00	52.08	267 792	6	4 870	14	990
Salmonella enterica	MPSPGB52-1	Seftenberg	SRR20081722	Puebla	55	4 867 300.00	52.07	236 993	7	4 932	14	987
Salmonella enterica	MPSPGB52-2	Seftenberg	SRR20081761	Puebla	54	4 867 866.00	52.07	267 792	6	4 928	14	988
Salmonella enterica	MPSPGB52-3	Seftenberg	SRR20081725	Puebla	53	4 867 580.00	52.06	268 546	6	4 936	14	986
Salmonella enterica	MPSPGB52-4	Seftenberg	SRR20081721	Puebla	55	4 867 568.00	52.07	267 792	6	4 925	14	988
Salmonella enterica	MPSPGB51	Typhimurium	SRR20081726	Puebla	72	5 140 584.00	51.86	223 918	7	5 287	213	972

# Supplementary material

Table S2

Strong antibiotic resistance profiles in *Salmonella* spp. isolated from ground beef in Central Mexico

Carlos M. Campos-Granados, Cindy F. Hernández-Pérez, María Salud Rubio-Lozano, Luisa María Sánchez-Zamorano, Enrique Jesús Delgado-Suárez

Table S2. AMR phenotypes and genotypes of *Salmonella* isolates (n = 116) obtained from ground beef in Central Mexico. Cells reporting the inhibition zone diameter (mm) for each antibiotic are color-coded according to phenotype: resistant (red), intermediate resistance (yellow), susceptible (white). Antibiotic abbreviations and criteria used to determine AMR phenotypes are reported in the tab "Criteria phenotypes".

Organismo	Nombre del aislamiento	Ciudad de aislamiento	ID NCBI	Serotipo	STR	AMK	AMP	AMC	CRO	FEP	MEM	CHL	SXT	CIP	TET	AZM	Fenotipo RAM	Genotipo RAM	
Salmonella enterica	MSPGB1-1	Ciudad de México	SAMN27723560	Anatum	3	19	23	30	33	34	37	8	0	28	0	24	TET/CHL/STR/SXT	tet(A), floR, aadA2, dfrA12, sul1, sul2, qnrB19, fosI2, qacEdelta1, mdsAB	
Salmonella enterica	MSPGB1-2	Ciudad de México	SAMN27723561	Anatum	12	22	24	27	30	30	32	0	0	29	0	15	TET/CHL/STR/SXT	tet(A), floR, aadA2, dfrA12, sul1, sul2, qnrB19, fosI2, qacEdelta1, mdsAB	
Salmonella enterica	MSPGB4-1	Cuernavaca	SAMN27723581	London	16	24	27	27	31	34	33	28	27	27	24	22	qnrB19, mdsAB		
Salmonella enterica	MSPGB4-2	Cuernavaca	SAMN27723559	Infantis	15	24	25	28	30	32	33	24	29	28	25	18	Pan-susceptible	qnrB19, mdsAB	
Salmonella enterica	MSPGB5-2	Cuernavaca	SAMN27723569	Anatum	16	24	22	27	32	36	33	26	27	29	25	23	Pan-susceptible	qnrB19, mdsAB	
Salmonella enterica	MSPGB6-2	Cuernavaca	SAMN27723579	Anatum	16	23	0	26	32	33	33	25	27	28	25	23	Pan-susceptible	qnrB19, mdsAB	
Salmonella enterica	MSPGB6-3	Cuernavaca	SAMN27723580	Anatum	15	23	27	27	31	36	34	27	28	30	19	22	Pan-susceptible	qnrB19, mdsAB	
Salmonella enterica	MSPGB7-1	Cuernavaca	SAMN27723583	Adelaide	18	26	27	29	33	34	32	29	30	30	26	25	Pan-susceptible	qnrB19, mdsAB	
Salmonella enterica	MSPGB7-2	Cuernavaca	SAMN27723582	Adelaide	17	26	27	28	32	35	32	28	28	30	28	28	Pan-susceptible	qnrB19, mdsAB	
Salmonella enterica	MSPGB7-3	Cuernavaca	SAMN27723558	Anatum	18	26	25	27	32	36	35	25	28	30	25	27	Pan-susceptible	qnrB19, mdsAB	
Salmonella enterica	MSPGB8-2	Cuernavaca	SAMN27723568	Adelaide	18	26	28	28	33	34	34	28	29	38	26	27	Pan-susceptible	mdsAB	
Salmonella enterica	MSPGB8-3	Cuernavaca	SAMN27723570	Adelaide	18	26	28	29	33	35	35	27	29	37	27	26	Pan-susceptible	mdsAB	
Salmonella enterica	MSPGB8-5	Cuernavaca	SAMN27723584	Adelaide	17	26	27	29	32	35	35	29	29	37	26	28	Pan-susceptible	mdsAB	
Salmonella enterica	MSPGB9-1	Cuernavaca	SAMN27723585	Adelaide	0	25	0	26	33	35	33	0	25	29	8	27	AMP/TET/CHL/STR	blaTEM-1, tet(A), floR, aph(6)-IId, aph(3)-Ib, sul2, qnrB19, mdsAB	
Salmonella enterica	MSPGB9-2	Cuernavaca	SAMN27723586	Adelaide	0	27	0	26	34	35	35	0	25	29	8	26	AMP/TET/CHL/STR	blaTEM-1, tet(A), floR, aph(6)-IId, aph(3)-Ib, sul2, qnrB19, mdsAB	
Salmonella enterica	MSPGB9-3	Cuernavaca	SAMN27723587	London	16	24	26	29	34	33	34	29	27	30	28	20	Pan-susceptible	qnrB19, mdsAB	
Salmonella enterica	MSPGB10-2	Cuernavaca	SAMN27723564	Adelaide	14	22	26	27	32	32	31	27	26	29	25	23	Pan-susceptible	qnrB19, mdsAB	
Salmonella enterica	MSPGB10-3	Cuernavaca	SAMN27723567	Infantis	16	22	26	28	31	32	35	26	28	27	22	20	Pan-susceptible	qnrB19, mdsAB	
Salmonella enterica	MSPGB10-4	Cuernavaca	SAMN27723573	Infantis	16	24	25	27	31	32	34	26	28	30	26	22	Pan-susceptible	qnrB19, mdsAB	
Salmonella enterica	MSPGB10-5	Cuernavaca	SAMN27723571	Infantis	16	25	26	27	31	35	34	27	29	28	27	18	Pan-susceptible	qnrB19, mdsAB	
Salmonella enterica	MSPGB10-6	Cuernavaca	SAMN27723588	Infantis	15	26	26	27	32	33	33	27	29	26	26	18	Pan-susceptible	qnrB19, mdsAB	
Salmonella enterica	MSPGB10-7	Cuernavaca	SAMN27723589	Infantis	14	24	27	26	33	35	34	26	29	29	27	16	Pan-susceptible	qnrB19, mdsAB	
Salmonella enterica	MSPGB12-1	Puebla	SAMN27723590	Anatum	15	22	24	27	31	33	34	0	0	29	0	15	TET/CHL/SXT	tet(A), floR, sul1, sul2, aadA2, dfrA12, fosI2, qnrB19, qacEdelta1, mdsAB	
Salmonella enterica	MSPGB12-2	Puebla	SAMN27723557	Newport	12	21	0	24	33	32	35	0	0	28	5	31	AMP/AZM/TET/CHL/STR/SXT	blaCARB-2, mph(A), tet(A), floR, aadA2, dfrA1, sul1, qnrB19, qacEdelta1, qnrA1, mdsAB	
Salmonella enterica	MSPGB13-1	Puebla	SAMN27723563	Agona	12	24	0	25	34	34	33	0	0	31	0	16	AMP/TET/CHL/STR/SXT	blaCARB-2, tet(A), floR, aadA2, dfrA12, sul1, qnrB19, fosA7, qacEdelta1, qnrA1, mdsAB	
Salmonella enterica	MSPGB13-2	Puebla	SAMN27723566	Agona	12	21	0	20	32	34	34	0	0	29	0	14	AMP/TET/CHL/STR/SXT	blaCARB-2, tet(A), floR, aadA2, dfrA12, sul1, fosA7, qacEdelta1, qnrA1, mdsAB	
Salmonella enterica	MSPGB13-3	Puebla	SAMN27723572	Agona	10	22	0	25	32	32	34	0	0	30	0	15	AMP/TET/CHL/STR/SXT	blaCARB-2, tet(A), floR, aadA2, dfrA12, sul1, fosA7, qacEdelta1, qnrA1, mdsAB	
Salmonella enterica	MSPGB14-1	Puebla	SAMN27723575	I4, [5], 12i:-	0	24	0	24	33	35	33	28	27	33	0	21	AMP/TET/STR	blaTEM-1, tet(B), aph(3)-Ib, aph(6)-IId, sul2, qnrB19, mdsAB	
Salmonella enterica	MSPGB14-2	Puebla	SAMN27723591	I4, [5], 12i:-	15	25	25	29	34	34	32	27	28	33	0	20	TET	tet(B), qnrB19, mdsAB	
Salmonella enterica	MSPGB15-1	Puebla	SAMN27723592	Derby	16	21	28	30	32	33	35	26	28	35	26	17	Pan-susceptible	fosA7, 3, mdsAB	
Salmonella enterica	MSPGB15-2	Puebla	SAMN27723593	Derby	15	24	27	29	35	36	34	25	26	37	26	16	Pan-susceptible	fosA7, 3, mdsAB	
Salmonella enterica	MSPGB16-1	Ciudad de México	SAMN27723594	Havana	17	29	27	28	34	36	33	26	27	37	27	19	Pan-susceptible	mdsAB	
Salmonella enterica	MSPGB16-2	Ciudad de México	SAMN27723556	Havana	15	20	25	25	30	31	29	24	24	32	24	15	Pan-susceptible	mdsAB	
Salmonella enterica	MSPGB16-3	Ciudad de México	SAMN27723562	Havana	14	19	25	25	29	32	30	23	25	32	23	15	Pan-susceptible	mdsAB	
Salmonella enterica	MSPGB16-4	Ciudad de México	SAMN27723565	Havana	15	21	25	26	30	32	29	23	26	33	23	16	Pan-susceptible	mdsAB	
Salmonella enterica	MSPGB16-5	Ciudad de México	SAMN27723574	Havana	14	21	24	25	29	31	30	23	25	31	22	14	Pan-susceptible	mdsAB	
Salmonella enterica	MSPGB19-1	Ciudad de México	SAMN27723595	Panama	12	20	23	25	31	31	29	24	0	31	20	15	STR/SXT	aadA2, dfrA12, sul2, tet(M), qacI, mdsAB	
Salmonella enterica	MSPGB19-2	Ciudad de México	SAMN27723596	Panama	12	20	23	29	30	32	30	24	0	31	24	13	STR/SXT	aadA2, dfrA12, sul2, tet(M), qacI, mdsAB	
Salmonella enterica	MSPGB19-3	Ciudad de México	SAMN29633023	Panama	14	21	19	21	27	30	23	26	21	33	25	25	Pan-susceptible	mdsAB	
Salmonella enterica	MSPGB20-1	Ciudad de México	SAMN33796093	Anatum	15	22	10	9	29	32	23	27	25	35	27	15	AMP/AMC	tet(A), floR, aadA2, dfrA12, sul1, sul2, qnrB19, fosI2, qacEdelta1, mdsAB	
Salmonella enterica	MSPGB24-1	Ciudad de México	SAMN29633025	Anatum	12	22	21	23	31	32	24	0	0	26	0	22	TET/CHL/STR/SXT	tet(A), floR, aadA2, dfrA12, sul1, qnrB19, qacEdelta1, mdsAB	
Salmonella enterica	MSPGB24-2	Ciudad de México	SAMN29633027	Anatum	14	24	22	23	30	33	21	0	0	25	0	24	TET/CHL/SXT	tet(A), floR, aadA2, dfrA12, sul1, qnrB19, qacEdelta1, mdsAB	
Salmonella enterica	MSPGB25-1	Ciudad de México	SAMN33796094	Anatum	12	21	20	21	29	29	24	0	0	25	0	24	TET/CHL/STR/SXT	tet(A), floR, aadA2, dfrA12, sul1, qnrB19, qacEdelta1, mdsAB	
Salmonella enterica	MSPGB26-1	Ciudad de México	SAMN29633030	Infantis	14	22	22	21	30	32	24	24	27	33	23	15	Pan-susceptible	mdsAB	
Salmonella enterica	MSPGB26-2	Ciudad de México	SAMN29633031	Infantis	13	22	23	20	29	33	23	22	21	33	24	11	AZM	mdsAB	
Salmonella enterica	MSPGB27-1	Ciudad de México	SAMN29633022	Newport	12	21	0	0	27	31	23	0	0	29	7	7	AMP/AMC/AZM/TET/CHL/STR/SXT	blaCARB-2, mph(A), tet(A), floR, aadA2, dfrA1, sul1, qacEdelta1, qnrA1, mdsAB	
Salmonella enterica	MSPGB27-2	Ciudad de México	SAMN29633024	Newport	14	22	0	8	30	32	25	0	0	29	0	8	AMP/AMC/AZM/TET/CHL/STR/SXT	blaCARB-2, mph(A), tet(A), floR, aadA2, dfrA1, sul1, qacEdelta1, qnrA1, mdsAB	
Salmonella enterica	MSPGB27-3	Ciudad de México	SAMN29633026	Newport	12	23	0	7	30	33	25	0	0	30	0	7	AMP/AMC/AZM/TET/CHL/STR/SXT	blaCARB-2, mph(A), tet(A), floR, aadA2, dfrA1, sul1, qacEdelta1, qnrA1, mdsAB	
Salmonella enterica	MSPGB27-4	Ciudad de México	SAMN29633028	Newport	12	21	0	0	31	32	25	0	0	28	7	7	AMP/AMC/AZM/TET/CHL/STR/SXT	blaCARB-2, mph(A), tet(A), floR, aadA2, dfrA1, sul1, qacEdelta1, qnrA1, mdsAB	
Salmonella enterica	MSPGB28-1	Toluca	SAMN29633029	London	13	21	21	20	29	29	23	25	25	27	24	21	Pan-susceptible	qnrB19, mdsAB	
Salmonella enterica	MSPGB28-2	Toluca	SAMN33796095	London	15	22	25	22	31	33	25	28	28	26	25		Pan-susceptible	qnrB19, mdsAB	
Salmonella enterica	MSPGB29-2	Toluca	SAMN29633032	Bovismorbificans	15	20	22	22	29	31	24	27	29	33	25	15	Pan-susceptible	mdsAB	
Salmonella enterica	MSPGB29-3	Toluca	SAMN29633033	Newport	0	23	0	0	19	27	24	0	0	22	34	7	17	AMP/AMC/CRO/TET/CHL/STR	blaCMV-2, tet(A), floR, aph(3)-Ib, aph(6)-IId, sul2, mdsAB
Salmonella enterica	MSPGB29-4	Toluca	SAMN29633034	London	15	21	22	21	30	30	24	27	25	24	25	19	Pan-susceptible	qnrB19, mdsAB	
Salmonella enterica	MSPGB30-1	Toluca	SAMN29633035	Rissen	0	21	0	0	27	29	22	0	0	34	7	15	AMP/AMC/TET/CHL/STR/SXT	blaTEM-1, tet(A), floR, aac(3)-IId, aph(6)-IId, dfrA17, sul2, lnu(F), oxqAB, qacEdelta1, mdsAB	
Salmonella enterica	MSPGB30-2	Toluca	SAMN29633036	Adelaide	0	20	0	10	28	27	27	0	0	26	35	7	16	AMP/AMC/TET/CHL/STR	blaTEM-1, tet(A), floR, aph(3)-Ib, aph(6)-IId, sul2, mdsAB
Salmonella enterica	MSPGB30-3	Toluca	SAMN29633037	Adelaide	0	21	0	10	29	31	23	0	0	23	35	7	16	AMP/AMC/TET/CHL/STR	blaTEM-1, tet(A), floR, aph(3)-Ib, aph(6)-IId, sul2, mdsAB
Salmonella enterica	MSPGB30-4	Toluca	SAMN29633038	Seftenberg	11	21	0	7	31	30	24	0	0	29	7	7	AMP/AMC/AZM/TET/CHL/STR/SXT	blaCARB-2, mph(A), tet(A), floR, aadA2, dfrA1, sul1, qacEdelta1, qnrA1, mdsAB	
Salmonella enterica	MSPGB30-7	Toluca	SAMN29633039	Adelaide	0	20	0	8	29	29	23	0	0						

# Supplementary material

Salmonella enterica	MPSPG835-1	Toluca	SAMN29633053	Anatum	13	21	24	24	29	33	31	19	25	32	24	24	Pan-susceptible	mdsAB
Salmonella enterica	MPSPG835-2	Toluca	SAMN29633054	Anatum	14	21	24	30	30	31	30	27	27	36	24	25	Pan-susceptible	mdsAB
Salmonella enterica	MPSPG835-4	Toluca	SAMN29633055	Muenchen	15	20	24	26	29	31	28	27	24	33	24	22	Pan-susceptible	mdsAB
Salmonella enterica	MPSPG836	Toluca	SAMN29633056	Give	15	20	24	27	30	32	31	26	24	34	23	23	Pan-susceptible	mdsAB
Salmonella enterica	MPSPG837-1	Toluca	SAMN29633057	Infantis	14	21	25	26	30	30	28	24	26	32	23	21	Pan-susceptible	mdsAB
Salmonella enterica	MPSPG837-2	Toluca	SAMN29633058	Anatum	13	20	25	26	29	32	29	27	25	34	24	24	Pan-susceptible	mdsAB
Salmonella enterica	MPSPG838-1	Toluca	SAMN29633059	Anatum	16	21	26	25	30	32	30	25	26	34	23	22	Pan-susceptible	mdsAB
Salmonella enterica	MPSPG838-2	Toluca	SAMN29633060	Anatum	13	15	26	26	27	29	27	26	27	25	24	21	Pan-susceptible	mdsAB
Salmonella enterica	MPSPG838-3	Toluca	SAMN29633061	Anatum	13	20	25	27	26	30	29	27	25	33	24	20	Pan-susceptible	mdsAB
Salmonella enterica	MPSPG838-4	Toluca	SAMN29633062	Anatum	14	22	26	27	30	33	30	27	26	38	25	23	Pan-susceptible	mdsAB
Salmonella enterica	MPSPG839-1	Toluca	SAMN29633063	Anatum	0	21	9	24	32	33	31	0	0	32	0	24	AMP/TET/CHL/STR/SXT	blaCARB-2, tet(B), floR, aadA2, aph(3 <sup>II</sup> )-Ib, aph(6)-IId, dfrA12, sul1, sul2, qnrA1, qacEdelta1, mdsAB
Salmonella enterica	MPSPG839-2	Toluca	SAMN29633064	Anatum	0	22	8	22	31	33	31	0	0	30	12	24	AMP/CHL/STR/SXT	blaCARB-2, tet(B), floR, aadA2, aph(3 <sup>II</sup> )-Ib, aph(6)-IId, dfrA12, sul1, sul2, qnrA1, qacEdelta1, mdsAB
Salmonella enterica	MPSPG839-3	Toluca	SAMN29633065	Anatum	0	21	8	26	31	34	31	0	0	32	0	24	AMP/TET/CHL/STR/SXT	blaCARB-2, tet(B), floR, aadA2, aph(3 <sup>II</sup> )-Ib, aph(6)-IId, dfrA12, sul1, sul2, qnrA1, qacEdelta1, mdsAB
Salmonella enterica	MPSPG839-4	Toluca	SAMN29633066	Anatum	0	21	7	26	30	32	30	0	0	33	0	23	AMP/TET/CHL/STR/SXT	blaCARB-2, tet(B), floR, aadA2, aph(3 <sup>II</sup> )-Ib, aph(6)-IId, dfrA12, sul1, sul2, qnrA1, qacEdelta1, mdsAB
Salmonella enterica	MPSPG840-1	Toluca	SAMN29633067	Derby	14	21	25	27	30	33	31	25	27	35	24	22	Pan-susceptible	fosA7_3, mdsAB
Salmonella enterica	MPSPG840-2	Toluca	SAMN29633068	Derby	15	22	25	27	31	32	31	26	27	37	25	24	Pan-susceptible	fosA7_3, mdsAB
Salmonella enterica	MPSPG840-3	Toluca	SAMN29633069	Derby	15	21	21	24	30	31	24	25	28	38	23	23	Pan-susceptible	fosA7_3, mdsAB
Salmonella enterica	MPSPG841-1	Toluca	SAMN29633070	Derby	0	23	27	28	33	35	30	26	22	29	11	21	TET/STR	tet(A), aadA2, sul1, qnrB19, fosA7_3, qacEdelta1, mdsAB
Salmonella enterica	MPSPG841-2	Toluca	SAMN29633071	Derby	0	22	25	28	32	33	30	26	22	31	0	21	TET/STR	tet(A), aadA2, sul1, qnrB19, fosA7_3, qacEdelta1, mdsAB
Salmonella enterica	MPSPG841-3	Toluca	SAMN29633072	Derby	0	20	25	26	30	30	30	25	21	29	0	15	TET/STR	tet(A), aadA2, sul1, qnrB19, fosA7_3, qacEdelta1, mdsAB
Salmonella enterica	MPSPG842	Tlaxcala	SAMN29633073	Anatum	0	22	8	25	32	33	32	0	0	34	0	22	AMP/TET/CHL/STR/SXT	blaCARB-2, tet(B), floR, aadA2, aph(3 <sup>II</sup> )-Ib, aph(6)-IId, dfrA12, sul1, sul2, qnrA1, qacEdelta1, mdsAB
Salmonella enterica	MPSPG843-1	Querétaro	SAMN29633074	Newport	9	21	0	17	31	32	30	0	0	30	0	7	AMP/AZM/TET/CHL/STR/SXT	blaCARB-2, mph(A), tet(A), floR, aadA2, dfrA1, sul1, qacEdelta1, qnrA1, mdsAB
Salmonella enterica	MPSPG845	Chilpancingo	SAMN29633075	Anatum	13	22	25	25	31	31	30	25	26	22	25	21	Pan-susceptible	mdsAB
Salmonella enterica	MPSPG846	Chilpancingo	SAMN33796096	Adelaide	15	23	27	29	31	34	32	28	28	35	25	21	Pan-susceptible	mdsAB
Salmonella enterica	MPSPG847-1	Chilpancingo	SAMN33796097	Rissen	14	22	25	26	32	33	31	25	25	36	24	20	Pan-susceptible	mdsAB
Salmonella enterica	MPSPG847-2	Chilpancingo	SAMN33796098	Rissen	14	22	26	26	32	33	30	26	27	37	25	20	Pan-susceptible	mdsAB

Criteria used to classify isolates as clinically resistant, intermediate or susceptible												
Phenotypes	Tested antibiotics (concentration in µg)											
	β-Lactams					Fluoroquinolones	Macrolides	Tetracyclines	Phenicol	Aminoglycosides		Folate pathway inhibitors
	Ampicillin (10)	Amoxicillin/clavulanic acid(20/10)	Ceftriaxone (30)	Cefepime (30)	Meropenem (15)	Ciprofloxacin (5)	Azithromycin (15)	Tetracycline (30)	Chloranphenicol (30)	Amikacin (30)	Streptomycin (10)	Trimetoprim/sulfamethoxazole (1.25/23.75)
	AMP	AMC	CRO	FEP	MEM	CIP	AZM	TET	CHL	AMK	STR	SXT
Susceptible	≥17	≥18	≥23	≥25	≥23	≥31	≥13	≥15	≥18	≥17	≥15	≥16
Intermediate	14-16	14-17	20-22	19-24	20-22	21-30	12-14	13-17	15-16	13-14	11-15	
Resistant	≤13	≤13	≤19	≤18	≤19	≤20	≤12	≤11	≤10	≤14	≤12	≤10