

Appendix Table. Description of integrons and associated serotypes, MLST results, and countries of origin of 90 isolates with the ACSSuT phenotype used in this study*

| Integron profile† | No. isolates (no. with integrons sequenced) | Serotype | MLST results | | | | | | | ST (no. isolates) | Country | |
|--|---|----------------|--------------|-------------|-------------|-------------|-------------|-------------|-------------|----------------------|--------------------|--------------|
| | | | <i>aroC</i> | <i>dnaN</i> | <i>hemD</i> | <i>hisD</i> | <i>sucA</i> | <i>purE</i> | <i>thrA</i> | | | |
| <i>aacA4</i> | 1 (1) | Isangi | 117 | 73 | 41 | 79 | 71 | 65 | 72 | 335 (1) | South Africa | |
| | 1 (1) | Isangi | 117 | 73 | 41 | 79 | 71 | 65 | 72 | 335 (1) | Uganda | |
| | 1 (1) | Typhimurium | 10 | 7 | 12 | 9 | 5 | 9 | 2 | 19 (1) | South Africa | |
| <i>aac(6')-IIc/ereA2/IS1247/aac/arr/ereA2</i> | 3 (2) | Heidelberg | 2 | 7 | 9 | 9 | 5 | 9 | 12 | 15 (3) | Philippines | |
| <i>aadA2</i> | 1 (1) | Isangi | 2 | 73 | 41 | 79 | 71 | 65 | 72 | 216 (1) | South Africa | |
| <i>arr2/cmlA5/blaOXA10/aadA1</i> | 8 (5) | Isangi | 2 | 73 | 41 | 79 | 71 | 65 | 72 | 216 (5) | South Africa | |
| | | | 117 | 73 | 41 | 79 | 71 | 65 | 72 | 335 (1) | | |
| | | | 10 | 73 | 41 | 79 | 71 | 9 | 72 | 336 (1) | | |
| | 3 (1) | Typhimurium | 2 | 73 | 41 | 79 | 71 | 65 | 8 | 337 (1) | | |
| | | | 10 | 7 | 12 | 9 | 5 | 9 | 2 | 19 (3) | | |
| <i>blaOXA30/aadA1</i> | 1 (1) | Typhimurium | 116 | 7 | 12 | 9 | 5 | 9 | 2 | 328 (1) | Taiwan | |
| <i>dfrA1/aadA1</i> | 1 (1) | Goettingen | 11 | 10 | 13 | 32 | 10 | 13 | 112 | 334 (1) | Spain | |
| | 2 (2) | Brandenburg | 11 | 10 | 13 | 32 | 10 | 13 | 112 | 334 (2) | | |
| | 1 (1) | Typhimurium | 10 | 19 | 12 | 9 | 5 | 9 | 2 | 34 (1) | Germany | |
| | 5 (5) | Cholerasuis | 34 | 31 | 35 | 14 | 26 | 6 | 8 | 66 (4) | Taiwan | |
| <i>dfrA12/orfF/aadA2</i> | 1 (1) | Stanley | 16 | 16 | 20 | 18 | 8 | 12 | 18 | 29 (1) | | |
| | | | 16 | 16 | 20 | 18 | 8 | 12 | 18 | 29 (1) | | |
| | 1 (1) | Schwarzengrund | 43 | 47 | 49 | 49 | 41 | 15 | 3 | 96 (1) | | |
| | 1 (1) | Schwarzengrund | 43 | 47 | 49 | 49 | 41 | 15 | 3 | 96 (1) | Denmark | |
| | 1 (1) | Typhimurium | 10 | 7 | 12 | 9 | 5 | 9 | 2 | 19 (1) | United States/CDC | |
| | 1 (1) | Heidelberg | 2 | 7 | 9 | 9 | 5 | 9 | 12 | 15 (1) | Philippines | |
| | 2 (2) | Typhimurium | 10 | 7 | 12 | 9 | 5 | 9 | 2 | 19 (2) | South Africa | |
| | <i>dfrA7</i> | 6 (5) | Enteritidis | 5 | 2 | 3 | 7 | 6 | 6 | 11 | 11 (6) | Uganda |
| | | 2 (2) | Enteritidis | 5 | 2 | 3 | 7 | 6 | 6 | 11 | 11 (2) | South Africa |
| 4 (2) | | Paratyphi A | 45 | 4 | 8 | 44 | 27 | 9 | 8 | 85 (4) | Denmark | |
| <i>qacH/dfrA17/ereA/aadA2/cmlA/aadA1</i> | 13 (3) | Stanley | 16 | 16 | 20 | 18 | 8 | 12 | 18 | 29 (13) | Taiwan | |
| <i>tnpA/dfrA7</i> | 1 (1) | Enteritidis | 5 | 2 | 3 | 7 | 6 | 6 | 11 | 11 (1) | Uganda | |
| <i>aacA4, arr2/cmlA5/blaOXA10/aadA1</i> | 6 (3)‡ | Typhimurium | 10 | 7 | 12 | 9 | 5 | 9 | 2 | 19 (6) | South Africa | |
| <i>aadA2, blaOXA30/aadA1</i> | 1 (1) | Typhimurium | 10 | 7 | 12 | 9 | 112 | 9 | 2 | 313 (1) | South Africa | |
| <i>aadB, blaOXA30/aadA1</i> | 1 (1) | Typhimurium | 10 | 7 | 12 | 9 | 112 | 9 | 2 | 313 (1) | South Africa | |
| <i>aadB/catB3, blaOXA30/aadA1</i> | 1 (1) | Typhimurium | 10 | 7 | 12 | 9 | 5 | 9 | 2 | 19 (1) | Taiwan | |
| | 1 (1) | Typhimurium | 116 | 7 | 12 | 9 | 5 | 9 | 2 | 328 (1) | Philippines | |
| | 4 (4) | Typhimurium§ | 10 | 7 | 12 | 9 | 5 | 9 | 2 | 19 (4) | United States/ACHD | |
| <i>blaPSE1, aadA2</i> | 2 (2) | Typhimurium§ | 10 | 7 | 12 | 9 | 5 | 9 | 2 | 19 (2) | Spain | |
| | 3 (3) | Typhimurium§ | 10 | 7 | 12 | 9 | 5 | 9 | 2 | 19 (3) | Italy | |
| | 3 (3) | Typhimurium§ | 10 | 7 | 12 | 9 | 5 | 9 | 2 | 19 (3) | South Africa | |
| | 4 (4) | Albany§ | 104 | 100 | 54 | 78 | 104 | 9 | 48 | 292 (4) | Taiwan | |
| <i>dfrA1/orfC, blaPSE1</i> | 1 (1) | Newport | 63 | 14 | 6 | 12 | 5 | 14 | 58 | 156 (1) | Denmark | |
| <i>dfrA15, blaPSE1, aac3A-Id/aadA7</i> | 1 (1) | Typhimurium | 10 | 7 | 12 | 9 | 112 | 9 | 2 | 313 (1) | South Africa | |
| <i>aadB, aadA2, blaOXA30/aadA1</i> | 1 (1) | Typhimurium | 10 | 7 | 12 | 9 | 112 | 9 | 2 | 313 (1) | South Africa | |
| <i>dfrA15, blaPSE1, aadA2, dfrA12/orfF/aadA2</i> | 1 (1) | Typhimurium§ | 10 | 7 | 12 | 9 | 5 | 9 | 2 | 19 (1) | United States/ACHD | |

*ACSSuT, ampicillin, chloramphenicol, streptomycin, sulfamethoxazole, and tetracycline; MLST, multilocus sequence typing; ST, sequence type; CDC, Centers for Disease Control and Prevention; ACHD, Allegheny County Health Department.

†Order of gene cassettes is as listed.

‡3 *aacA4* cassettes were fully sequenced; *arr2/cmlA5/blaOXA10/aadA1* gene cassettes were identified by partial sequencing and PCR with multiple primer pairs internal to gene cassettes.

§Positive for SGI1 or variant SGI1.

