ANIMAL

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| **Isolation source** | **Location** | **Complete MRSA genes detected** | **Point mutation** |
| bodily fluid | Germany | ant(9)-Ia, blaI, blaPC1, blaR1, erm(A), erm(C), mepA, spd, tet(38), parC\_S80Y, vga(E) | glpT\_A100V, glpT\_F3I, murA\_D278E, murA\_E291D, |
| bodily fluid | Germany | ant(9)-Ia, blaI, blaPC1, blaR1, erm(A), mepA, tet(38), tet(M), vga€ | glpT\_A100V ,glpT\_F3I,murA\_D278E,murA\_E291D,parC\_S80Y, |
| Mandible | Australia: Melbourne | blaR1b, fosB, mecC, mecI, mepA, tet(38) | glpT\_A100V ,murA\_E291D ,murA\_T396N, |
| fish drying yard | India: Veraval, Gujarat | fosB,mepA, tet(38) | glpT\_A100V, glpT\_V213I,murA\_D278E,murA\_E291D, |
| Retail market fish | India: Assam | blaI, blaR1, blaZ, erm(C), fosB, mecA, tet(38) | gyrA\_S84L, parC\_S80F partial |
| left hindlimb fetlock wound | Canada | aac(6')-Ie/aph(2'')-Ia, blaI, blaR1nm,dfrS1, erm(c),fosB, mecA,mepA, tet(38),tet(M) | folP\_E208K,folP\_F17L,gyrA\_S84L,murA\_G257D,parC\_S80Y,rpoB\_H481N,rpoB\_I527M |
| NA | China | aac(6')-Ie/aph(2'')-Ia,aadD1,ant(6)-Ia=,blaI,blaPC1,blaR1, blaR1,blaZ,dfrG,fexA,fosB,lnu(B),lsa(E),mecA,mepA,spw,tet(38),tet(K),tet(L) | gyrA\_S84A,parC\_S80F,rpsJ\_Y58D |
| NA | Sweden | blaI,blaR1,blaZ,fosB,mecA,mepA,tet(38) | NA |
| NA | Sweden | ant(6)-Ia,aph(3')-IIIa,blaI,blaR1,blaZ,erm(C),mecA,mepA,tet(K), tet(38), sat4, | pbp4\_R200L |
| NA | Sweden | blaZ, mecC, mepA, tet(38), mecI | glpT\_A100V, murA\_E291D, murA\_T396N |
| NA | Sweden | blaI,blaR1,blaZ,fosB=C,mecA,mepA, tet(38) | NA |
| NA | Sweden | blaZ, mecC, mecI,mepA, tet(38) | glpT\_A100V, murA\_E291D,murA\_T396N |
| NA | France | aac(6')-Ie/aph(2'')-Ia,blaI,mepA,dfrK, blaZ, mecA, tet(38), tet(M) | glpT\_A100V, glpT\_F3I, gyrA\_S84L, parC\_S80F, murA\_E291D, murA\_D278E HMM |
| NA | France | blaI,blaR1,blaZ,dfrS1,fexA,mepA, str,tet(38), tet(M), mecA, | glpT\_A100V,glpT\_F3I,gyrA\_E88K,murA\_D278E,murA\_E291D,parC\_S80F |
| NA | France | blaI,blaR1,blaZ,dfrS1,tet(38), tet(M),vga(A), mepA, mecA | glpT\_A100V,glpT\_F3I, murA\_D278E, murA\_E291D, parC\_S80F |
| NA | France | blaI, blaZ, mecA, mepA, spd, tet(38), tet(M),tet(K) | murA\_D278E, murA\_E291D, glpT\_A100V, glpT\_F3I |
| NA | France | aac(6')-Ie/aph(2'')-Ia,blaI, blaZ, dfrK, mecA, mepA, tet(38), tet(M) | glpT\_A100V, glpT\_F3I, murA\_D278E, murA\_E291D |
| NA | France | aac(6')-Ie/aph(2'')-Ia,blaI,blaZ, mepA, mecA, tet(38), tet(M), dfrK | glpT\_A100V, glpT\_F3I, murA\_D278E, murA\_E291D, rpoB\_H481N |
| NA | France | aac(6')-Ie/aph(2'')-Ia, blaI, dfrK, mecA, mepA, tet(38), tet(M) | gyrA\_S84L, glpT\_A100V, glpT\_F3I, murA\_D278E, murA\_E291D, parC\_S80F |
| NA | France | aac(6')-Ie/aph(2'')-Ia, blaI, blaZ, dfrK, mecA, mepA, tet(38), tet(M) | glpT\_A100V, glpT\_F3I, murA\_D278E, murA\_E291D, rpoB\_H481N |
| NA | France | aac(6')-Ie/aph(2'')-Ia, blaI, blaZ, mepA, catA, dfrK, mecA, tet(38), tet(M), str | glpT\_A100V, glpT\_F3I, murA\_D278E, murA\_E291D, rpoB\_H481N |
| NA | France | aac(6')-Ie/aph(2'')-Ia, aadD1, blaI, blaZ, dfrK, mecA, mepA, mph(C), msr(A), mupA, tet(38), tet(M), vga(A) | glpT\_A100V, glpT\_F3I, murA\_D278E, murA\_E291D |
| NA | France | blaI, blaR1, blaZ, dfrS1, mecA, mepA, vga(A), tet(38), tet(M) | glpT\_A100V, glpT\_F3I, murA\_E291D, parC\_S80F, murA\_D278E |
| NA | France | aac(6')-Ie/aph(2'')-Ia, blaI, blaZ, catA, dfrK, mepA, mecA, tet(38), tet(M) | glpT\_A100V, glpT\_F3I , gyrA\_S84L, murA\_D278E,murA\_E291D, parC\_S80F, |
| NA | France | blaI, blaZ, dfrK, erm(C), mecA,mepA, tet(38), tet(M) | glpT\_A100V, glpT\_F3I, gyrA\_S84L, murA\_D278E, murA\_E291D, parC\_S80F, |
| NA | France | aac(6')-Ie/aph(2'')-Ia, blaI, blaZ, dfrK, mecA, mepA, tet(38), tet(M) | glpT\_A100V, murA\_D278E, parC\_S80F, glpT\_F3I, gyrA\_S84L,murA\_E291D |
| NA | France | aac(6')-Ie/aph(2'')-Ia, blaI, blaZ, dfrK, mecA, mepA, tet(38), tet(M) HMM | glpT\_A100V=POINT,glpT\_F3I, murA\_D278E, murA\_E291D |
| NA | France | blaI, blaR1, blaZ, dfrS1, fexA, mecA, mepA, tet(38), tet(M) point | glpT\_A100V, glpT\_F3I, gyrA\_E88K, murA\_D278E, murA\_E291D, parC\_S80F |
| NA | Norway | ant(6)-Ia, aph(3')-IIIa, blaI, blaR1, blaZ, erm(C), mecA, mepA, sat4, tet(38), tet(K) | pbp4\_R200L |
| NA | Norway | ant(6)-Ia, aph(3')-IIIa, blaI, blaR1, blaZ, erm(C), mecA, mepA, sat4, tet(38), tet(K) | pbp4\_R200L |
| NA | Norway | ant(6)-Ia , aph(3')-IIIa, blaI, blaR1, blaZ, erm(C), mecA, mepA, sat4, tet(38), tet(K) | mecR1 point |
| NA | Norway | ant(6)-Ia ,aph(3')-IIIa, blaI, blaR1, blaZ, erm(C), mecA, mepA, sat4 | pbp4\_R200L |
| NA | Norway | ant(6)-Ia, aph(3')-IIIa , blaI, blaR1, blaZ, mepA, erm(C), mecA, sat4, tet(38), tet(K) | blal, blaR1 |
| NA | Norway | ant(6)-Ia, aph(3')-IIIa, blaI, blaR1, blaZ, erm(C),mecA, mepA, sat4, tet(38), tet(K) | pbp4\_R200L |
| NA | Norway | ant(6)-Ia, aph(3')-IIIa, blaI, blaR1, blaZ, erm(C), mecA, mepA, sat4, tet(38),tet(K) | pbp4\_R200L |
| NA | Norway | ant(6)-Ia, aph(3')-IIIa, blaI, blaR1, blaZ , erm(C), mecA,mepA,sat4, tet(38), tet(K) | pbp4\_R200L |
| NA | Norway | ant(6)-Ia, aph(3')-IIIa, blaI, blaR1, blaZ, erm(C), sat4, tet(38), tet(K), mecA, mepA | pbp4\_R200L |
| NA | Norway | ant(6)-Ia, aph(3')-IIIa, blaI , blaR1, blaZ, erm(C), mecA,mepA,sat4,tet(38), tet(K) | pbp4\_R200L |
| Groin | Sweden | blaI, blaR1, blaZ, fosB, mecA,mepA,tet(38), tet(K) | NA |
| Bulk milk | Sweden | blaI, blaR1, blaZ, fosB, mecA, mepA, tet(38) | NA |
| milk | Sweden | blaI, blaR1, blaZ, fosB,mecA, mepA, tet(38) | NA |
| milk | Sweden | blaI, blaR1, blaZ , fosB, mecA,mepA, tet(38) | NA |
| milk | Sweden | blaI, blaR1,blaZ, fosB, mepA, mecA, tet(38) | NA |
| milk | Sweden | blaI, blaR1, blaZ, fosB,mecA,mepA, tet (38) | NA |
| milk | Sweden | blaI, blaR1, blaZ, fosB, mecA,mepA,tet(38) | NA |
| milk | Sweden | blaI, blaR1, blaZ, fosB, mecA, mepA, tet(38) | NA |
| milk | Sweden | blaI, blaR1, blaZ, fosB, mecA,mepA, tet(38) | NA |
| milk | Sweden | blaI, blaR1, blaZ, fosB, mecA,mepA, tet(38) | NA |
| milk | Sweden | blaI, blaR1, blaZ, fosB, mecA, mepA, tet(38) | NA |
| nose swab | Germany | aadD1,fosB, mepA, mph (C), msr(A), tet (38), tet(L) | gyrA\_S84L, murA\_G257D ,parC\_S80Y |
| nose swab | Germany | mepA, tet(38) | glpT\_A100V, murA\_E291D, murA\_T396N |
| nose swab | Germany | aadD1,fosB, mepA, mph(C), msr(A) , tet(38),tet(L) | gyrA\_S84L, murA\_G257D, parC\_S80Y |
| nose swab | Germany | mepA, tet(38) | glpT\_A100V, murA\_E291D,murA\_T396N, |
| nose swab | Germany | aadD1,fosB,mepA, mph(C), msr(A), tet(38), tet(L) | gyrA\_S84L, murA\_G257D, parC\_S80Y |
| nose swab | Germany | aadD1,fosB,mepA, msr(A), mph(C),tet(38), tet(L) | gyrA\_S84L,murA\_G257D,parC\_S80Y |
| Monkey | China | blaI, blaR1,blaZ, mecA, mepA, tet(38) | glpT\_A100V, glpT\_F3I, murA\_D278E,murA\_E291D, |
| milk | China:Shaanxi | aac(6')-Ie/aph(2'')-Ia, aadD1, ant(6)-Ia, blaI, blaR1, blaZ, dfrG, erm(C), fexA, fosB, lsa(E), mecA, mepA, spw, str, tet(38), tet(L) | gyrA\_S84A, parC\_S80F, rpsJ\_Y58D |
| milk | Thailand: Kanchanaburi | aac(6')-Ie/aph(2'')-Ia, ant(9)-Ia, blaI, blaR1, blaZ, dfrG, erm(A), mecA, mepA , tet(38), tet(M) | glpT\_A100V, glpT\_F3I, gyrA\_S84L, murA\_D278E, murA\_E291D,parC\_S80F |

ENVIRONMENT

|  |  |  |  |
| --- | --- | --- | --- |
| Isolation source | Location | Complete MRSA genes detected |  |
| surface |  | aac(6')-Ie/aph(2'')-Ia, ant(6)-Ia, ant(9)-Ia, aph(3')-IIIa, blaI, blaR1, erm(A), fosB,mecA, mepA,sat4,tet(38) | blaZ point |
| pig farm dust | Netherlands | ant(9)-Ia, blaI, blaPC1, blaR1, cfr, dfrG, fexA,lnu(B), lsa (E), str,tet(38), tet(K), tet(M), mecA, mapA | glpT\_A100V, glpT\_F3I, murA\_D278E, murA\_E291D |
| Monkey living indoor room floor swab | China | blaI, blaR1, blaZ, mecA, tet(38),mepA | glpT\_A100V, glpT\_F3I, murA\_D278E, murA\_E291D |
| Monkey living indoor room floor swab | China | blaI, blaR1, blaZ,mecA, mepA, tet(38) | glpT\_A100V, glpT\_F3I, murA\_D278E, murA\_E291DT |
| Bulk tank milk | Serbia | aac(6')-Ie/aph(2'')-Ia, blaI, blaR1, blaZ, mecA, mepA, tet(38) | NA |
| Bulk tank milk | Serbia | aac(6')-Ie/aph(2'')-Ia, blaI, blaR1, blaZ, mecA, mepA, tet(38) | glpT\_A100V, murA\_E291D, murA\_T396N |
| Bulk tank milk | Serbia | aadD1, ant(6)-Ia, blaI, blaR1, blaZ, dfrG, erm(C), fexA, lnu(B), lsa(E), spw, mecA, mepA, tet(38), tet(K), tet(M) | glpT\_A100V, glpT\_F3I, gyrA\_S84L, murA\_D278E, murA\_E291D, parC\_S80Y |
| Bulk tank milk | Serbia | aac(6')-Ie/aph(2'')-Ia, aadD1, ant(6)-Ia, blaI, blaR1, blaZ, dfrG, fexA, lnu(B), spw, mecA, mepA, lsa(E), tet(38) , tet(K), tet(M) | glpT\_A100V, glpT\_F3I, gyrA\_S84L, murA\_D278E, murA\_E291D, parC\_S80Y |
| Bulk tank milk | Serbia | ant(6)-Ia, aph(3')-IIIa, blaI, blaR1, blaZ, erm(C), mecA, mepA, tet(38),tet(K), sat4 | pbp4\_R200L |
| Bulk tank milk | Serbia | ant(6)-Ia, aph(3')-IIIa, blaI, blaR1, blaZ, erm(C), mecA, mepA,sat4, tet(38),tet(K) | pbp4\_R200L |
| Bulk tank milk | Serbia | aadD1, ant(6)-Ia, dfrG, lnu(B), lsa(E), mecA, mepA, spw, tet(38), tet(K), tet(M) | glpT\_A100V, glpT\_F3I, gyrA\_S84L, murA\_D278E, murA\_E291D, parC\_S80Y |
| Bulk tank milk | Serbia | aadD1, ant(6)-Ia, blaI, blaR1, blaZ, dfrG, lsa(E), lnu(B), mecA, mepA, spw, tet(38), tet(K), tet(M) | glpT\_A100V, glpT\_F3I, gyrA\_S84L, murA\_D278E, murA\_E291D, parC\_S80Y |
| Bulk tank milk | Serbia | aadD1, ant(6)-Ia, blaI, blaR1, blaZ, dfrG, lnu(B), lsa(E), spw, mecA,mepA, tet(38), tet(M), tet(K) | glpT\_A100V, glpT\_F3I, gyrA\_S84L, murA\_D278E, murA\_E291D, parC\_S80Y |
| Bulk tank milk | Serbia | aadD1, ant(6)-Ia, blaI, blaR1, blaZ, dfrG, lnu(B), mecA, mepA, lsa(E), spw, tet(38), tet(K), tet(M) | glpT\_A100V, glpT\_F3I, gyrA\_S84L, murA\_D278E, murA\_E291D, parC\_S80Y |
| bulk tank bovine milk | Italy: Bari | ant(6)-Ia, aph(3')-IIIa, blaI, blaR1, blaZ, erm(C), mecA, mepA, sat4, tet(38), tet(K) | pbp4\_R200L |
| Glove | USA:Baltimore, MD | aadD1, ant(9)-Ia, blaI, blaR1, blaZ, bleO, erm(A), fosB, ,mecA, mecI, mecR1, mepA, mph(C), msr(A),tet(38) | parC\_S80F, parE\_P585S, gyrA\_S84L=POINT |
| Gown | USA:Baltimore, MD | aph(3')-IIIa, blaI, blaR1, blaZ, dfrG, fosB, mepA, mph(C)l, msr(A), sat4, tet(38), mecA | gyrA\_S84L, murA\_G257D, parC\_S80Y |
| Glove | USA:Baltimore, MD | aadD1, ant(9)-Ia, blaI, blaR1, blaZ, bleO, erm(A), fosB, fosY, mecA, mecI, mecR1, mepA, tet(38) | parC\_E84G, parC\_S80Y, gyrA\_S84L, gyrA\_S85P |
| Glove | USA:Baltimore, MD | ant(9)-Ia, aph(3')-IIIa, blaI, blaR1, blaZ, mecA, mecI, erm(A), fosB, mecR1, mepA, sat4, tet(38), mph©, msr(A) | gyrA\_E88K, gyrA\_S84L, parC\_E84G, parC\_S80Y |
| Glove | USA:Baltimore, MD | aph(3')-IIIa, blaI, blaR1, blaZ, erm(C), mecA, fosB, mepA, tet(38), mph(C), msr(A) | gyrA\_S84L, ,murA\_G257D=POINT,parC\_S80Y |
| Glove | USA:Baltimore, MD | blaI, blaR1, blaZ, dfrK, fosB, mecA, mepA, mpc(C), msr(A), tet(38) | murA\_G257D |
| Glove | USA:Baltimore, MD | aadD1, ant(9)-Ia, aph(3')-IIIa, blaI, blaR1, blaZ, bleO, dfrF, erm(C), erm(A), fosB, tet(38), sr(A), tet(M), sat4 | parC\_E84G, parC\_S80Y, |
| Gown | USA:Baltimore, MD | blaI, blaR1, blaZ, mepA, tet(38) | glpT\_A100V, murA\_E291D, murA\_T396N |
| Glove | USA:Baltimore, MD | aadD1, aph(3')-IIIa, blaI, blaZ, bleO, dfrS1, fosB, mepA, mph(C), msr(A), sat4, tet(38), tet(K), mecA | NA |
| Glove | USA:Baltimore, MD | ant(6)-Ia=PARTIAL,aph(3')-IIIa,blaI,blaR1,blaZ,fosB,mepA,mph(C),msr(A), sat4,tet(38), mecA | gyrA\_S84L ,parC\_S80Y,parE\_D432V |
| Glove | USA:Baltimore, MD | ,aph(3')-IIIa,blaI,blaR1,blaZ,fosB, mecA,mepA,mph(C),msr(A), sat4,tet(38) point | gyrA\_S84L, murA\_G257D, parC\_S80Y |
| Glove | USA:Baltimore, MD | blaI,blaR1,blaZ,fosB,tet(38),mecA,mepA | gyrA\_S84L,murA\_G257D,parC\_S80Y |
| Gown | USA:Baltimore, MD | aadD1,ant(9)-Ia,blaI,blaR1,blaZ,bleO,erm(A),fosB,fosY, mecA,mecI,mecR1,mepA, tet(38) | gyrA\_S84L,gyrA\_S85P,parC\_E84G,parC\_S80Y |
| Glove | USA:Baltimore, MD | blaI,blaR1,blaZ,fosB,mecA,mepA,mph(C),msr(A),tet(38) | gyrA\_S84L,murA\_G257D,parC\_S80Y |
| Glove | USA:Baltimore, MD | blaI,blaR1,blaZ,fosB,,mepA,mph(C),msr(A), mecA, sat4,tet(38) | gyrA\_S84L,murA\_G257D,parC\_S80Y |
| Gown | USA:Baltimore, MD | blaI,blaR1,blaZ,fosB, tet(38), mecA, mepA,mph(C),msr(A), | gyrA\_S84L, murA\_G257D,parC\_S80Y |
| Glove | USA:Baltimore, MD | aac(6')-Ie/aph(2'')-Ia,aadD1,ant(9)-Ia,blaI,blaR1,blaZ,bleO,erm(A),fosB,fosY,,mecA,mecI,mecR1,mepA,tet(38) | gyrA\_S84L,gyrA\_S85P,parC\_E84G,parC\_S80Y |
| Gown | USA:Baltimore, MD | aac(6')-Ie/aph(2'')-Ia, aadD1,ant(9)-Ia,blaI,blaR1,blaZ,bleO,erm(A),fosB,fosY, mecA,mecI,mecR1,mepA,tet(38) | gyrA\_S84L,parC\_E84G,parC\_S80Y |
| Glove | USA:Baltimore, MD | aac(6')-Ie/aph(2'')-Ia,aph(3')-IIIa,blaI,blaZ,dfrS1,erm(C), fosB, ,mecA, mepA,mph(C),msr(A),mupA, sat4,tet(38),tet(M) | folP\_E208K,folP\_F17L, gyrA\_S84L, murA\_G257D, parC\_S80F |
| Glove | USA:Baltimore, MD | ant(9)-Ia,aph(3')-IIIa,blaI,blaR1,blaZ,bleO,erm(A),fosB, mecA,mecI,mecR1,mepA,mph(C),msr(A), sat4,tet(38) | gyrA\_E88K,gyrA\_S84L,,parC\_E84G,parC\_S80Y, aadD1 |
| Gown | USA:Baltimore, MD | ant(9)-Ia,aph(3')-IIIa,blaI,blaR1,blaZ,bleO,erm(A),fosB, mecA,mecI,mecR1,mepA,mph(C),msr(A), sat4, tet(38), aadD1 | gyrA\_S84L,gyrA\_S85P,parC\_E84G,parC\_S80Y |
| Gown | USA:Baltimore, MD | aadD1, ant(9)-Ia,aph(3')-IIIa,blaI,blaR1,blaZ,bleO,erm(A),fosB, mecA,mecI,mecR1,mepA,mph(C),msr(A),sat4,tet(38) | gyrA\_S84L,parC\_E84G,parC\_S80Y,rpoB\_S464P |
| Glove | USA:Baltimore, MD | aadD1, ant(9)-Ia,aph(3')-IIIa,blaI,blaR1,blaZ,bleO,erm(A),fosB, mecA,mecI,mecR1,mepA,mph(C),msr(A), sat4,tet(38) | gyrA\_S84L,parC\_E84G,parC\_S80Y |
| Glove | USA:Baltimore, MD | aadD1,ant(9)-Ia,aph(3')-IIIa,blaI,blaR1,blaZ,bleO,erm(A),fosB,mecA,mecI,mecR1,mepA,mph(C),msr(A), sat4,tet(38) | parC\_E84G,parC\_S80Y, gyrA\_S84L |
| Glove | USA:Baltimore, MD | aadD1,aph(3')-IIIa,blaI,blaR1,blaZ,bleO,fosB,mecA,mecI,mecR1,mepA,mph(C),msr(A), sat4,tet(38) | parC\_E84G,parC\_S80Y,gyrA\_S84L |
| Gown | USA:Baltimore, MD | aadD1, aph(3')-IIIa,blaI,blaR1,blaZ,bleO,fosB,sat4,tet(38), mecA,mecI,mecR1,mepA,mph(C),msr(A) | gyrA\_S84L,parC\_E84G,parC\_S80Y |
| Glove | USA:Baltimore, MD | aadD1,ant(9)-Ia,blaI,blaR1,blaZ,bleO,erm(A),erm(C),fosB,mecA,mecI,mecR1,mepA,tet(38) | gyrA\_S84L,parC\_E84G,parC\_S80F, |
| Glove | USA:Baltimore, MD | aadD1,ant(9)-Ia,blaI,blaR1,blaZ,bleO,erm(A),erm(C),fosB,mecA,mecI,mecR1,mepA,tet(38) | NA |
| Gown | USA:Baltimore, MD | aadD1,ant(9)-Ia,blaI,blaR1,blaZ,bleO,erm(A),fosB,fosY,mecA,mecI,mecR1,mepA,tet(38),tet(K) | gyrA\_S84L,gyrA\_S85P,parC\_E84G,parC\_S80Y, |
| Glove | USA:Baltimore, MD | aadD1,ant(9)-Ia,blaI,blaR1,blaZ,bleO,erm(A),fosB, gyrA\_S84L,mecA,mecI,mecR1,mepA,mph(C), ,tet(38) | gyrA\_E88K, parC\_E84G,parC\_S80Y |
| Glove | USA:Baltimore, MD | aadD1,ant(9)-Ia,blaI,blaR1,blaZ,bleO,erm(A),fosB,mecA,mecI,mecR1,mepA,mph(C) | gyrA\_E88K,gyrA\_S84L,parC\_E84G,parC\_S80Y,tet(38) |
| Glove | USA:Baltimore, MD | aadD1,ant(9)-Ia,blaI,blaR1,blaZ,bleO,erm(A),fosB,mecA,mecI,mecR1,mepA,tet(38) | parC\_E84G,parC\_S80Y, gyrA\_S84L,ileS\_V588F, |
| Glove | USA:Baltimore, MD | aadD1,ant(9)-Ia,blaI,blaR1,blaZ,bleO,erm(A),fosB, mecA,mecI,mecR1,mepA,mph(C),msr(A),tet(38) | gyrA\_S84L,parC\_E84G,parC\_S80Y |
| Glove | USA:Baltimore, MD | aadD1,ant(9)-Ia,blaI,blaR1,blaZ,bleO,erm(A),fosB,mecA,mecI,mecR1,mepA,mph(C),msr(A),tet(38) | parC\_S80F,parE\_P585S, gyrA\_S84L, |
| Glove | USA:Baltimore, MD | aadD1,ant(9)-Ia,blaI,blaR1,blaZ,bleO,erm(A),fosB,mecA,mecI,mecR1,mepA, tet(38) | gyrA\_S84L,parC\_E84G,parC\_S80Y, |
| Glove | USA:Baltimore, MD | aadD1,ant(9)-Ia,blaI,blaR1,blaZ,bleO,erm(A),fosB,mecA,mecI,mecR1,mepA | gyrA\_S84L,parC\_E84G,parC\_S80Y,tet(38) |
| Gown | USA:Baltimore, MD | aadD1,ant(9)-Ia,blaI,blaR1,blaZ,bleO,erm(A),fosB, mecA,mecI,mecR1,mepA,tet(38) | parC\_E84G,parC\_S80Y |
| Glove | USA:Baltimore, MD | aadD1,ant(9)-Ia,blaI,blaR1,blaZ,bleO,erm(A),fosB,mecA,mecI,mecR1,mepA,tet(38) | gyrA\_S84LparC\_S80F,parE\_P585S |
| Gown | USA:Baltimore, MD | aadD1,ant(9)-Ia,blaI,blaR1,blaZ,bleO, erm(C),fosB, mecA,mecI,mecR1,mepA, tet(38) | gyrA\_E88A,gyrA\_S84L,ileS\_V588F,parC\_E84G,parC\_S80Y,rpoB\_H481N |
| Glove | USA:Baltimore, MD | aadD1,ant(9)-Ia,blaI,blaR1,bleO,erm(A),fosB,mecA,mecI,mecR1,mepA,tet(38) | gyrA\_S84L,parC\_S80F PARTIAL |
| Glove | USA:Baltimore, MD | aadD1,ant(9)-Ia,bleO,erm(A),fosB,gyrA\_S84L,mecA,mecI,mecR1,mepA,tet(38) | parC\_E84K,parC\_S80Y,gyrA\_E88K, |
| Glove | USA:Baltimore, MD | aadD1,ant(9)-Ia,bleO,erm(A),fosB,mecA,mecI,mecR1,mepA,tet(38) | parC\_E84K,parC\_S80Y, gyrA\_E88K,gyrA\_S84L |
| Gown | USA:Baltimore, MD | aadD1,ant(9)-Ia,bleO,erm(A),fosB,mecA,mecI,mecR1,mepA,tet(38) | gyrA\_S84L,gyrA\_S85P,parC\_E84G,parC\_S80Y |
| Glove | USA:Baltimore, MD | aadD1,ant(9)-Ia,bleO,erm(A),fosB, mecA,mecI,mecR1,mepA,,tet(38) | parC\_E84G,parC\_S80Y, gyrA\_S84L,gyrA\_S84L |
| Gown | USA:Baltimore, MD | aadD1,ant(9)-Ia,bleO,erm(A),fosB,mecA,mecI,mecR1,mepA,tet(38) | parC\_E84G,parC\_S80Y, gyrA\_S84L, |
| Glove | USA:Baltimore, MD | aadD1,blaI,blaR1,blaZ,bleO,erm(A),fosB,fosY,mecA,mecR1,mepA,tet(38) | gyrA\_S84L,gyrA\_S85P,parC\_E84G,parC\_S80Y |
| Glove | USA:Baltimore, MD | aadD1,blaI,blaZ,bleO,fosB,mecA,mepA,tet(38) | NA |
| Glove | USA:Baltimore, MD | ant(9)-Ia,aph(3')-IIIa,blaI,blaR1,blaZ,erm(A),erm(C),fosB, mecA,mecI,mecR1,mepA,mph(C),msr(A),sat4,tet(38) | gyrA\_S84L,parC\_E84G,parC\_S80Y |
| Glove | USA:Baltimore, MD | ant(9)-Ia,aph(3')-IIIa,blaI,blaR1,blaZ,erm(A),fosB, mecA,mecI,mecR1,mepA,mph(C),msr(A), sat4,tet(38) | gyrA\_S84L,ileS\_V588F,parC\_E84G,parC\_S80Y, |
| Glove | USA:Baltimore, MD | ant(9)-Ia,aph(3')-IIIa,blaI,blaR1,blaZ,erm(A),fosB,mecA,sat4,tet(38),mepA,mph(C),msr(A) | gyrA\_S84L,parC\_E84G,parC\_S80Y, |
| Glove | USA:Baltimore, MD | ,ant(9)-Ia,blaI,blaR1,blaZ,erm(A),fosB, mecA,mecI,mecR1,mepA,mph(C),msr(A),tet(38) | NA |
| Gown | USA:Baltimore, MD | aph(3')-IIIa,blaI,blaR1,blaZ,mecA,mepA,mph(C),msr(A), sat4,tet(38) MISTRANSLATION | dfrB\_F99Y,dfrB\_H150R,fosB,gyrA\_S84L,murA\_G257D,parC\_S80Y |
| Gown | USA:Baltimore, MD | aph(3')-IIIa,blaI,blaR1,blaZ,dfrG,erm(C),fosB, sat4,tet(38), mecA, mepA,mph(C),msr(A) | gyrA\_S84LmurA\_G257D,parC\_S80Y |
| Gown | USA:Baltimore, MD | aph(3')-IIIa,blaI,blaR1,blaZ,dfrG,erm(C),fosB, sat4,tet(38), mecA, mepA,mph(C),msr(A) | gyrA\_S84L,murA\_G257D,parC\_S80Y |
| Glove | USA:Baltimore, MD | aph(3')-IIIa,blaI,blaR1,blaZ,dfrG,fosB ,mepA,mph(C),msr(A), sat4,tet(38),mecA | gyrA\_S84L,murA\_G257D,parC\_S80Y |
| Glove | USA:Baltimore, MD | aph(3')-IIIa,blaI,blaR1,blaZ,erm(C),fosB, mepA,mph(C),msr(A), mecA, sat4,tet(38) | gyrA\_S84L,murA\_G257D,parC\_S80Y |
| Glove | USA:Baltimore, MD | ,aph(3')-IIIa,blaI,blaR1,blaZ,erm(C),fosB,mecA, mepA,mph(C),msr(A),sat4,tet(38) | murA\_G257D |
| Glove | USA:Baltimore, MD | aph(3')-IIIa,blaI,blaR1,blaZ,fosB, sat4,tet(38), mepA,mph(C),msr(A),mecA | gyrA\_S84L,murA\_G257D,parC\_S80Y,rpoB\_H481Y |
| Glove | USA:Baltimore, MD | aph(3')-IIIa,blaI,blaR1,blaZ,fosB, mepA,mph(C),msr(A), mecA,tet(38) | gyrA\_S84L,murA\_G257D,parC\_S80Y |
| Glove | USA:Baltimore, MD | aph(3')-IIIa,blaI,blaR1,blaZ,fosB,mepA,mecA, sat4,tet(38) | gyrA\_S84L,murA\_G257D,parC\_S80Y |
| Glove | USA:Baltimore, MD | aph(3')-IIIa,blaI,blaR1,dfrG,fosB, mepA,mph(C),msr(A),sat4,tet(38) | gyrA\_S84L, murA\_G257D,parC\_S80Y,parE\_D432N |
| Gown | USA:Baltimore, MD | aph(3')-IIIa,blaI,blaR1, mepA,mph(C),msr(A),fosB, mecA,sat4,tet(38) | gyrA\_S84L,=PARTIAL,,murA\_G257D,parC\_S80Y,parE\_P451S |
| Glove | USA:Baltimore, MD | blaI,blaR1,blaZ,fosB, mepA,mph(C),msr(A),mecA, tet(38) | gyrA\_S84L,murA\_G257D,parC\_S80Y PARTIAL |
| Glove | USA:Baltimore, MD | blaI,blaR1,blaZ,fosB,mecA, mepA,mph(C),msr(A), tet(38) | murA\_G257D |
| Glove | USA:Baltimore, MD | aph(3')-IIIa,blaI,blaR1,blaZ,fosB,mecA,mepA,mph(C),msr(A),sat4,tet(38) | gyrA\_S84L,,parC\_S80Y,parE\_D432V |
| Gown | USA:Baltimore, MD | aph(3')-IIIa,blaI,blaR1,blaZ,fosB,mecA, mepA,mph(C),msr(A),sat4,tet(38) | NA |
| Gown | USA:Baltimore, MD | blaI,blaPC1,blaR1,mecA,mepA,tet(38),tet(K) | glpT\_A100V,gyrA\_S84L,murA\_E291D,murA\_T396N,parC\_S80F,parE\_P585S |
| Glove | USA:Baltimore, MD | blaI,blaR1,blaZ,erm(C),fosB,mecA, tet(38), mepA | murA\_G257D,parC\_S80Y,gyrA\_S84L, |
| Glove | USA:Baltimore, MD | blaI,blaR1,blaZ,fosB,mecA, ,tet(38),mepA,mph(C),msr(A) | murA\_G257D,parC\_S80Y,gyrA\_S84L, |
| Gown | USA:Baltimore, MD | blaI,blaR1,blaZ,fosB,mecA, tet(38),mepA,mph(C), | murA\_G257D,parC\_S80Y,gyrA\_S84L, |
| Glove | USA:Baltimore, MD | blaI,blaR1,blaZ,fosB, tet(38), mecA ,mepA | murA\_G257D,parC\_S80Y,gyrA\_S84L, |
| Glove | USA:Baltimore, MD | blaI,blaR1,blaZ,fosB,mecA,mepA,tet(38) | murA\_G257D |
| Glove | USA:Baltimore, MD | blaI,blaR1,blaZ,fosB,mecA,mepA,tet(38) | NA |
| Glove | USA:Baltimore, MD | fosB, mecA, tet(38),mepA, | murA\_G257D,parC\_S80Y,rpoB\_H481N,gyrA\_S84L, |

HUMAN

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| Isolation source | Location | Complete MRSA genes detected | Point mutation |
| nasal swab | Colombia: Putumayo | aac(6')-Ie/aph(2'')-Ia,aadD1, ant(9)-Ia,aph(3')-IIIa,blaI,blaR1,blaZ,bleO,erm(A),erm(C),fosB,mecA,mecI,mecR1,mepA,mph(C),msr(A),mupA,sat4,tet(38) | gyrA\_S84L,parC\_E84G,parC\_S80Y, |
| nasal swab | Colombia: Putumayo | aac(6')-Ie/aph(2'')-Ia,aadD1,ant(9)-Ia,aph(3')-IIIa,blaI,blaR1,blaZ,bleO,erm(A),fosB,mecA,mecI,mecR1,mepA,mph(C),msr(A),mupA,sat4,tet(38) | gyrA\_S84L,parC\_E84G,parC\_S80Y :ant(6)-Ia |
| nasal | Tanzania | aac(6')-Ie/aph(2'')-Ia,aadD1,aph(3')-IIIa,blaI,blaR1,blaZ,erm(C),fosB,mecA,mepA,mph(C),msr(A),mupA,sat4,tet(38) | gyrA\_S84L,murA\_G257D,parC\_S80Y |
| nasal | Tanzania | aac(6')-Ie/aph(2'')-Ia,aadD1,ant(9)-Ia,blaI,blaR1,blaZ,bleO,erm(A),fosB,fosY,mecA,mecI,mecR1,mepA,,tet(38) | gyrA\_S84L,parC\_S80F,parE\_D432N |
| nasal | Tanzania | aac(6')-Ie/aph(2'')-Ia,aadD1,tet(38),mecA,mecI,mecR1,mepA, | gyrA\_S84L,gyrA\_S85P,parC\_E84G,parC\_S80Y |
| nasal | Tanzania | aac(6')-Ie/aph(2'')-Ia,ant(9)-Ia,aph(3')-IIIa,blaI,blaR1,blaZ,erm(A),fosB,mecA,mecI, sat4,tet(38),mepA,mph(C),msr(A),mupA | parC\_E84G,parC\_S80Y, ,gyrA\_S84L |
| nasal | Tanzania | aac(6')-Ie/aph(2'')-Ia,aph(3')-IIIa,blaI,blaR1,blaZ,dfrG,fosB,tet(38),mecA,mepA,mph(C),msr(A) | parC\_S80Y,gyrA\_S84L |
| nasal | Tanzania | aac(6')-Ie/aph(2'')-Ia,blaI,blaR1,dfrS1,erm(C),fosB,mecA,str,tet(38),tet(M), mepA | murA\_G257D,parC\_S80F,rpoB\_A473T,rpoB\_A477T,rpoB\_H481N, folP\_E208K,folP\_F17L |
| nasal | Tanzania | aac(6')-Ie/aph(2'')-Ia,blaI,blaR1=HMM,blaZ,dfrK,fexA,tet(38),tet(M) mecA,mepA | glpT\_A100V,glpT\_F3I,murA\_D278E,murA\_E291D |
| nasal | Brazil: Rio de Janeiro | aadD1, ant(9)-Ia,aph(3')-IIIa,blaI,blaPC1,blaR1,bleO,erm(A),fosB,mecAmecR1,mepA,mph(C),msr(A), sat4,tet(38) | glpT\_A100V,glpT\_V213I,gyrA\_S84L,murA\_D278E,murA\_E291D,parC\_S80F |
| Nasal Surveillance | USA: Torrance, CA | aadD1,ant(9)-Ia,aph(3')-IIIa,blaI,blaR1,blaZ,bleO,dfrF,erm(A),erm(C),fosB,mecA,mecI,mecR1,mepA,mph(C),msr(A), pbp2m,sat4,tet(38),tet(M),tet(W) | gyrA\_S84L,ileS\_V588F, parC\_E84G,parC\_S80Y |
| Nasal Surveillance | USA: Torrance, CA | aadD1, ant(9)-Ia,aph(3')-IIIa,blaI,blaR1,blaZ,bleO,erm(A),erm(C),fosB,mecA,mecI,mecR1,mepA,mph(C),msr(A), ,sat4,tet(38) | gyrA\_E88K,gyrA\_S84L,parC\_E84G,parC\_S80Y |
| Nasal Surveillance | USA: Torrance, CA | aadD1, ant(9)-Ia,aph(3')-IIIa,blaI,blaR1,blaZ,bleO,erm(A),fosB, mecA,mecI,mecR1,mepA,mph(C),msr(A),sat4,tet(38) | gyrA\_S84L ,gyrA\_E88K,parC\_E84G,parC\_S80Y |
| Nasal Surveillance | USA: Torrance, CA | aadD1, ant(9)-Ia,aph(3')-IIIa,blaI,blaR1,blaZ,bleO,erm(A),fosB,mecA,mecI,mecR1,mepA,mph(C),,sat4,tet(38) | gyrA\_E88K,gyrA\_S84L,parC\_E84G,parC\_S80Y |
| Nasal Surveillance | USA: Torrance, CA | aadD1, ant(9)-Ia,aph(3')-IIIa,blaI,blaR1,blaZ,bleO,erm(A),fosB, mecA,mecI,mecR1,mepA,mph(C),msr(A), ,sat4,tet(38) | gyrA\_S84L,ileS\_V588F,,parC\_E84G,parC\_S80Y |
| Nasal Surveillance | USA: Torrance, CA | aadD1, ant(9)-Ia,aph(3')-IIIa,blaI,blaR1,blaZ,bleO,erm(A),fosB, mecA,mecI,mecR1,mepA,mph(C),msr(A), sat4,tet(38) | gyrA\_S84L,parC\_E84G,parC\_S80Y,rpoB\_R484H |
| Nasal Surveillance | USA: Torrance, CA | aadD1, ant(9)-Ia,aph(3')-IIIa,blaI,blaR1,blaZ,bleO,erm(A),fosB, mecA,mecI,mecR1,mepA,mph(C),msr(A),sat4,tet(38) | gyrA\_S84L,,parC\_E84G,parC\_S80Y |
| Nasal Surveillance | USA: Torrance, CA | aadD1, ant(9)-Ia,aph(3')-IIIa,blaI,blaR1,blaZ,bleO,erm(A),fosB,mecA,mecI,mecR1,mepA,mph(C),msr(A),sat4,tet(38) | gyrA\_S84L,,parC\_S80F,parE\_P585S |
| Nasal Surveillance | USA: Torrance, CA | aadD1, ant(9)-Ia,aph(3')-IIIa,blaI,blaR1,blaZ,bleO,erm(A),fosB, mecA,mecI,mecR1,mepA,mph(C),sat4,tet(38) | gyrA\_S84L,,parC\_S80F,parE\_P585S |
| Nasal Surveillance | USA: Torrance, CA | aadD1, ant(9)-Ia,aph(3')-IIIa,blaI,blaR1,blaZ,bleO,erm(A),fosB,mecA,mecI,mecR1,mepA,sat4,tet(38) | NA |
| Nasal Surveillance | USA: Torrance, CA | aadD1, ant(9)-Ia,aph(3')-IIIa,blaI,blaR1,blaZ,bleO, fosB, mecA,mecI,mecR1,mepA,mph(C),msr(A),sat4,tet(38) | gyrA\_S84L,,parC\_E84G,parC\_S80Y |
| Nasal Surveillance | USA: Torrance, CA | aadD1, ant(9)-Ia,blaI,blaR1,blaZ,bleO,erm(A),fosB, mecA,mecI,mecR1,mepA,mph(C),msr(A), ,sat4,tet(38) | gyrA\_E88K,gyrA\_S84L,,parC\_E84G,parC\_S80Y |
| Nasal Surveillance | USA: Torrance, CA | aadD1,,ant(9)-Ia,blaI,blaR1,blaZ,bleO,erm(A),fosB,mecA,mecI,mecR1,mepA,mph(C),msr(A),,tet(38) | parC\_E84G,parC\_S80Y,gyrA\_S84L |
| Nasal Surveillance | USA: Torrance, CA | aadD1, aph(3')-IIIa,blaI,blaR1,blaZ,bleO,fosB,,mecA,mecI,mecR1,mepA,mph(C),msr(A),sat4,tet(38) | parC\_E84G,gyrA\_S84LparC\_S80Y |
| Nasal Surveillance | USA: Torrance, CA | aadD1, aph(3')-IIIa,blaI, blaZ,bleO,catA,erm(C),sat4,tet(38),mecA,mepA | gyrA\_S84L,parC\_E84K,parC\_S80Y |
| Nasal Surveillance | USA: Torrance, CA | aadD1,aph(3')-IIIa,blaI,blaZ,bleO,dfrS1,fosB,mecA,mepA,mph(C),msr(A),sat4,tet(38),tet(K) | NA |
| Nasal Surveillance | USA: Torrance, CA | aadD1,ant(9)-Ia,blaI,blaR1,blaZ,bleO,erm(A),erm(C),fosB,mecA,tet(38), mecI,mecR1,mepA,mph(C) | parC\_E84G,parC\_S80Y |
| Nasal Surveillance | USA: Torrance, CA | aadD1,ant(9)-Ia,blaI,blaR1,blaZ,bleO,erm(A),erm(C),fosB,mecA,mecI,mecR1,mepA,tet(38) | parC\_S80F,parE\_P585S, |
| Nasal Surveillance | USA: Torrance, CA | aadD1,ant(9)-Ia,blaI,blaR1,blaZ,bleO,erm(A),erm(C),fosB, mecA,mecI,mecR1,mepA,tet(38),tet(M) | gyrA\_S84L,parC\_S80F |
| Nasal Surveillance | USA: Baltimore, MD | aadD1,ant(9)-Ia,blaI,blaR1,blaZ,bleO,erm(A),fosB,fosY,mecA,mecI,mecR1,mepA,tet(38 | gyrA\_S84L,gyrA\_S85P,parC\_E84G,parC\_S80Y) |
| Nasal Surveillance | USA: Baltimore, MD | aadD1,ant(9)-Ia,blaI,blaR1,blaZ,bleO,erm(A),fosB,mecA,mecI,mecR1,mepA,,tet(38) | gyrA\_E88A,gyrA\_S84L,ileS\_V588F,parC\_E84G,parC\_S80Y,rpoB\_S464P |
| Nasal Surveillance | USA: Baltimore, MD | aadD1,ant(9)-Ia,blaI,blaR1,blaZ,bleO,erm(A),fosBmecA,mecI,mecR1,mepA,tet(38) pont | gyrA\_E88A,gyrA\_S84L,ileS\_V588F,parC\_E84G,parC\_S80Y |
| Nasal Surveillance | USA: Baltimore, MD | aadD1,ant(9)-Ia,blaI,blaR1,blaZ,bleO,erm(A),fosB,mecA,mecI,mecR1,mepA,mph(C), tet(38) | parC\_E84G,parC\_S80Y,gyrA\_E88K,gyrA\_S84L |
| Nasal Surveillance | USA: Baltimore, MD | aadD1,ant(9)-Ia,blaI,blaR1,blaZ,bleO,erm(A),fosB, mecA,mecI,mecR1,mepA,mph(C),,tet(38) | parC\_E84G,parC\_S80Y, gyrA\_E88K,gyrA\_S84L |
| Nasal Surveillance | USA: Baltimore, MD | aadD1,ant(9)-Ia,blaI,blaR1,blaZ,bleO,erm(A),fosB, mecA,mecI,mecR1,mepA,tet(38) | parC\_E84G,parC\_S80Y, ,gyrA\_E88K,gyrA\_S84L |
| Nasal Surveillance | USA: Baltimore, MD | aadD1,ant(9)-Ia,blaI,blaR1,blaZ,bleO,erm(A),fosB, mecA,mecI,mecR1,mepA,mph(C),msr(A),mupA | gyrA\_S84L,gyrA\_S85P,parC\_E84G,parC\_S80Y,tet(38) |
| Nasal Surveillance | USA: Baltimore, MD | aadD1,ant(9)-Ia,blaI,blaR1,blaZ,bleO,erm(A),fosB,mecA,mecI,mecR1,mepA, tet(38) | gyrA\_S84L,gyrA\_S85PparC\_E84G,parC\_S80Y,rpoB\_H481N, |
| Nasal Surveillance | USA: Baltimore, MD | aadD1,ant(9)-Ia,blaI,blaR1,blaZ,bleO,erm(A),fosB,mecA,mecI,mecR1,mepA,,tet(38) | gyrA\_S84L,gyrA\_S85P,parC\_E84G,parC\_S80Y |
| Nasal Surveillance | USA: Baltimore, MD | aadD1,ant(9)-Ia,blaI,blaR1,blaZ,bleO,erm(A),fosB,mecA,mecI,mecR1,mepA,tet(38) | gyrA\_S84L,ileS\_V588F,parC\_S80F |
| Nasal Surveillance | USA: Baltimore, MD | aadD1,ant(9)-Ia,blaI,blaR1,blaZ,bleO,erm(A),fosB, mecA,mecI,mecR1,mepA,mph(C),msr(A),tet(38) | gyrA\_S84L,parC\_E84G,parC\_S80Y |
| Nasal Surveillance | USA: Baltimore, MD | aadD1,ant(9)-Ia,blaI,blaR1,blaZ,bleO,erm(A),fosB, mecA,mecI,mecR1,mepA,mph(C),msr(A), tet(38) | gyrA\_S84L,parC\_S80F,parE\_P585S |
| Nasal Surveillance | USA: Baltimore, MD | aadD1,ant(9)-Ia,blaI,blaR1,blaZ,bleO,erm(A),fosB,mecA,mecI,mecR1,mepA,,tet(38) | parC\_E84G,gyrA\_S84L,parC\_S80Y |
| Nasal Surveillance | USA: Baltimore, MD | aadD1,ant(9)-Ia,blaI,blaR1,blaZ,bleO,erm(A),fosB,mecA,mecI,mecR1,mepA,tet(38) | gyrA\_S84L,parC\_S80F,parE\_P585S |
| Nasal Surveillance | USA: Baltimore, MD | aadD1,ant(9)-Ia,blaI,blaR1,blaZ,bleO, fosB,mecA,mecI,mecR1,mepA, tet(38) | gyrA\_E88A,gyrA\_S84L,ileS\_V588F,parC\_E84G,parC\_S80Y,rpoB\_H481N, |
| Nasal Surveillance | USA: Baltimore, MD | aadD1,blaR1,blaZ,bleO,erm(A),fosB,mecA,mecI,mecR1,mepA,tet(38), ant(9)-Ia | gyrA\_S84L,parC\_S80F |
| Nasal Surveillance | USA: Baltimore, MD | aadD1,ant(9)-Ia,bleO,erm(A),erm(C),fosB,mecA,mecI,mecR1,mepA,tet(38) | parC\_E84K,parC\_S80Y,gyrA\_E88K,gyrA\_S84L |
| Nasal Surveillance | USA: Baltimore, MD | aadD1,ant(9)-Ia,bleO,erm(A),fosB,mecA,mecI,mecR1,mepA,tet(38) | parC\_S80Y, gyrA\_S84L,ileS\_V588F, |
| Nasal Surveillance | USA: Baltimore, MD | aadD1,ant(9)-Ia,bleO,erm(A),fosB,mecA,mecI,mecR1,mepA,mph(C),msr(A), tet(38) | gyrA\_S84L, parC\_E84G,parC\_S80Y,rpoB\_R484H |
| Nasal Surveillance | USA: Baltimore, MD | aadD1,ant(9)-Ia,bleO,erm(A),fosB,mecA,mecI,mecR1,mepA, tet(38) | parC\_E84G,parC\_S80Y,gyrA\_S84L |
| Nasal Surveillance | USA: Baltimore, MD | aadD1,ant(9)-Ia,bleO,erm(A),fosB, mecA,mecI,mecR1, tet(38) | parC\_S80F, ,gyrA\_S84L, |
| Nasal Surveillance | USA: Baltimore, MD | ant(9)-Ia,aph(3')-IIIa,blaI,blaR1,blaZ,erm(A),fosB, mecA,mecI,mecR1,mepA,mph(C),msr(A),mupA,sat4,tet(38 | gyrA\_E88K,gyrA\_S84L,,parC\_E84G,parC\_S80Y) |
| Nasal Surveillance | USA: Baltimore, MD | ant(9)-Ia,aph(3')-IIIa,blaI,blaR1,blaZ,erm(A),fosB, mecA,mecI,mecR1,mepA,mph(C),msr(A), tet(38) | gyrA\_S84L,gyrA\_S85P,parC\_E84G,parC\_S80Y |
| Nasal Surveillance | USA: Baltimore, MD | ant(9)-Ia,aph(3')-IIIa,blaI,blaR1,blaZ,erm(A),fosB, mecA,mecI,mecR1,mepA,mph(C),msr(A), ,sat4,tet(38) | gyrA\_S84L,ileS\_V588F,parC\_E84G,parC\_S80Y |
| Nasal Surveillance | USA: Baltimore, MD | ant(9)-Ia,aph(3')-IIIa,blaI,blaR1,blaZ,erm(A),fosB, mecA,mecI,mecR1,mepA,mph(C),msr(A),,sat4,tet(38) | gyrA\_S84L,parC\_E84G,parC\_S80Y |
| Nasal Surveillance | USA: Baltimore, MD | ant(9)-Ia,aph(3')-IIIa,blaI,blaR1,blaZ,erm(A),fosB,mecA,mepA,mph(C),msr(A),sat4,tet(38) | gyrA\_S84L,parC\_S80F,parE\_P451S |
| Nasal Surveillance | USA: Baltimore, MD | ant(9)-Ia,blaI,blaR1,blaZ,erm(A),fosB, mecA,mecI,mecR1,mepA,mph(C),msr(A),tet(38) | gyrA\_S84L,,parC\_E84G,parC\_S80Y |
| Nasal Surveillance | USA: Baltimore, MD | aph(3')-IIIa,blaI,blaR1,blaZ,fosB, mecA,mepA,mph(C), ,sat4,tet(38) | dfrB\_F99Y,dfrB\_H150R,gyrA\_S84L,murA\_G257D,parC\_S80Y |
| Nasal Surveillance | USA: Baltimore, MD | aph(3')-IIIa,blaI,blaR1,blaZ,dfrG,erm(C),fosB, mepA,mph(C),msr(A),mecA,sat4,tet(38) | gyrA\_S84L,mecR1=,murA\_G257D,parC\_S80Y |
| Nasal Surveillance | USA: Baltimore, MD | aph(3')-IIIa,blaI,blaR1,blaZ,dfrG,fosB,mecA, mepA,mph(C),msr(A),sat4,tet(38) | gyrA\_S84L,murA\_G257D,parC\_S80Y |
| Nasal Surveillance | USA: Baltimore, MD | aph(3')-IIIa,blaI,blaR1,blaZ,dfrG,fosB, mecA, ,mepA,mph(C),msr(A),sat4,tet(38) | murA\_G257D,parC\_S80Y |
| Nasal Surveillance | USA: Baltimore, MD | aph(3')-IIIa,blaI,blaR1,blaZ,erm(C),fosB,mecA,mepA,mph(C),msr(A),sat4,tet(38) | gyrA\_S84L,murA\_G257D,parC\_S80Y |
| Nasal Surveillance | USA: Baltimore, MD | aph(3')-IIIa,blaI,blaR1,blaZ,mecA, mepA,mph(C),msr(A),fosB,,sat4,tet(38) | gyrA\_S84L,murA\_G257D |
| Nasal Surveillance | USA: Baltimore, MD | aph(3')-IIIa,blaI,blaR1,blaZ,fosB,mecA,mepA,mph(C),msr(A),sat4,tet(38) | murA\_G257D, |
| Nasal Surveillance | USA: Baltimore, MD | aph(3')-IIIa,blaI,blaR1,blaZ,fexA,fosB,mecA,mepA,mph(C),msr(A),sat4,tet(38) | NA |
| Nasal Surveillance | USA: Baltimore, MD | aph(3')-IIIa,blaI,blaR1,blaZ,fosB, mecA, mepA,mph(C),msr(A),sat4,tet(38) | murA\_G257D,parC\_S80Y,gyrA\_S84L |
| Nasal Surveillance | USA: Baltimore, MD | aph(3')-IIIa,blaI,blaR1,blaZ,fosB, mecA,mepA,mph(C),msr(A),sat4,tet(38) | gyrA\_S84L,murA\_G257D,parC\_E84K,parC\_S80Y |
| Nasal Surveillance | USA: Baltimore, MD | aph(3')-IIIa,blaI,blaR1,blaZ,fosB, mecA,mepA,mph(C),msr(A),sat4,tet(38) | gyrA\_S84L,murA\_G257D,parC\_S80F,rpoB\_H481N |
| Nasal Surveillance | USA: Baltimore, MD | aph(3')-IIIa,blaI,blaR1,blaZ,fosB,mecA,mepA,mph(C),msr(A),tet(38) | gyrA\_S84L,murA\_G257D,parC\_S80Y,parE\_D432V |
| Nasal Surveillance | USA: Baltimore, MD | aph(3')-IIIa,blaI,blaR1,blaZ,fosB, mecA,mepA,mph(C),msr(A), sat4,tet(38) | gyrA\_S84L, murA\_G257D,parC\_S80Y,parE\_P585S |
| Nasal Surveillance | USA: Baltimore, MD | aph(3')-IIIa,blaI,blaR1,blaZ,fosB,mecA, mepA,mph(C),msr(A),sat4,tet(38) | gyrA\_S84LmurA\_G257D,parC\_S80Y,rpoB\_A477V |
| Nasal Surveillance | USA: Baltimore, MD | aph(3')-IIIa,blaI,blaR1,blaZ,fosB,mecA,mepA,mph(C),msr(A), sat4,tet(38) | gyrA\_S84LmurA\_G257D,parC\_S80Y,rpoB\_S464P |
| Nasal Surveillance | USA: Baltimore, MD | aph(3')-IIIa,blaI,blaR1,blaZ,fosB,mecA,sat4,tet(38), mepA,mph(C),msr(A), | gyrA\_S84L murA\_G257D,parC\_S80Y |
| Nasal Surveillance | USA: Baltimore, MD | aph(3')-IIIa,blaI,blaR1,blaZ,fosB, mecA,tet(38), mepA,mph(C),msr(A) | gyrA\_S84L,mecR1=,murA\_G257D,parC\_S80Y |
| Nasal Surveillance | USA: Baltimore, MD | aph(3')-IIIa,blaI,blaR1,blaZ,fosB,mecA,mepA,mph(C),msr(A),tet(38) | gyrA\_S84LmurA\_G257D,parC\_S80Y |
| Nasal Surveillance | USA: Baltimore, MD | aph(3')-IIIa,blaI,blaR1,blaZ,fosB,mecA,mepA,mph(C),sat4,tet(38) | gyrA\_S84L,murA\_G257D,parC\_S80Y |
| Nasal Surveillance | USA: Baltimore, MD | aph(3')-IIIa,blaI,blaR1,blaZ,fosB,mecA,sat4,tet(38), mepA,mph(C),msr(A) | murA\_G257D,parC\_S80F |
| Nasal Surveillance | USA: Baltimore, MD | aph(3')-IIIa,blaI,blaR1,blaZ,fosB,mecA,mepA,mph(C),msr(A),sat4,tet(38) | murA\_G257D |
| Nasal Surveillance | USA: Baltimore, MD | aph(3')-IIIa,blaI,blaR1,blaZ,fosB,mecA,mepA,mph(C),msr(A),tet(38) | murA\_G257D |
| Nasal Surveillance | USA: Baltimore, MD | aph(3')-IIIa,blaI,blaR1, dfrG,fosB, mecA,mepA,mph(C),msr(A),sat4,tet(38) | gyrA\_S84L,murA\_G257D,parC\_S80Y,parE\_D432N |
| Nasal Surveillance | USA: Baltimore, MD | aph(3')-IIIa,blaI,blaR1,erm(C),fosB,sat4,tet(38), mepA,mph(C),msr(A),mecA | murA\_G257D,parC\_S80Y,,gyrA\_S84L |
| Nasal Surveillance | USA: Baltimore, MD | aph(3')-IIIa,blaI,blaR1,fosB,sat4,tet(38),mecA, mepA,mph(C),msr(A) | gyrA\_S84LmurA\_G257D,parC\_S80Y, |
| Nasal Surveillance | USA: Baltimore, MD | blaI,blaR1,blaZ,erm(C),fosB, mecA, mepA,mph(C),msr(A),sat4,tet(38) | murA\_G257D,parC\_S80Y |
| Nasal Surveillance | USA: Baltimore, MD | blaI,blaR1,blaZ,fosB,mecA,mepA,mph(C),msr(A),tet(38) | NA |
| Nasal Surveillance | USA: Baltimore, MD | blaI,blaR1,blaZ,fosB,mecA,tet(38)mepA,mph(C),msr(A) | murA\_G257D |
| Nasal Surveillance | USA: Baltimore, MD | aph(3')-IIIa,blaI,blaR1,blaZ,fosB,mecA,mepA,mph(C),msr(A),sat4,tet(38),tet(K) | murA\_G257D, |
| Nasal Surveillance | USA: Baltimore, MD | tet(38), aph(3')-IIIa,blaI,blaR1,blaZ,fosB,mecA,mepA,mph(C),msr(A) | NA |
| Nasal Surveillance | USA: Baltimore, MD | aph(3')-IIIa,blaI,blaZ,mecA,mepA,mph(C),msr(A),sat4,tet(38),fosB | gyrA\_S84L,parC\_S80F |
| Nasal Surveillance | USA: Baltimore, MD | aph(3')-IIIa,fosB,mecA, mepA,mph(C),msr(A), tet(38) | NA |
| Nasal Surveillance | USA: Baltimore, MD | ant(9)-Ia,blaI,blaR1,blaZ,erm(A),fosB,mecA,mecI,mecR1,mepA,tet(38) | parC\_E84K,parC\_S80F,gyrA\_S84L |
| Nasal Surveillance | USA: Baltimore, MD | ant(9)-Ia,erm(A),fosB,mecA,mecI,mecR1,mepA,tet(38) | parC\_E84G,parC\_S80Y,gyrA\_S84L,gyrA\_S85P |
| Nasal Surveillance | USA: Baltimore, MD | blaI,blaZ,erm(A),fosB,mepA,tet(38) | NA |
| Nasal Surveillance | USA: Baltimore, MD | aph(3')-IIIa,blaI,blaR1,blaZ,fosB,mecA,tet(38) , mepA,mph(C),msr(A) | murA\_G257D,parC\_S80Y,gyrA\_S84L |
| Nasal Surveillance | USA: Baltimore, MD | aph(3')-IIIa,blaI,blaR1,blaZ,fosB,mecA,tet(38), mepA,mph(C) ,msr(A) | murA\_G257D,parC\_S80Y,gyrA\_S84L |
| Nasal Surveillance | USA: Baltimore, MD | blaI,blaPC1,blaR1,catA,fosB,mepA,tet(38),tet(K) | pbp4\_E218K |
| Nasal Surveillance | USA: Baltimore, MD | blaI,blaPC1,blaR1,dfrG,fosB,mecA, tet(38) ,mepA | murA\_G257D,folP\_E208K,folP\_F17L |
| Nasal Surveillance | USA: Baltimore, MD | blaI,blaPC1,blaR1,erm(C),mecA,mepA,mupA,,tet(38),tet(K) | murA\_E291D,murA\_T396N,parC\_S80F,parE\_P585S,glpT\_A100V,gyrA\_S84L |
| Nasal Surveillance | USA: Baltimore, MD | blaI,blaPC1,blaR1,erm(C),mecA,mepA,mupA,tet(38) | murA\_E291D,murA\_T396N,parC\_S80F,glpT\_A100V,gyrA\_S84L |
| Nasal Surveillance | USA: Baltimore, MD | blaI,blaPC1,blaR1,erm(C),mecA,mepA,tet(38),tet(K) | murA\_E291D,murA\_T396N,parC\_S80F,parE\_P585S,glpT\_A100V,gyrA\_S84L |
| Nasal Surveillance | USA: Baltimore, MD | blaI,blaPC1,blaR1,erm(C),mecA,mepA,tet(38),tet(K) | murA\_E291D,murA\_T396N,parC\_S80F,glpT\_A100V,gyrA\_S84L |
| Nasal Surveillance | USA: Baltimore, MD | blaI,blaR1,blaZ,fosB,mecA,mepA,mph(C),msr(A), tet(38) | murA\_G257D,parC\_S80Y,parE\_D432V,dfrB\_F99Y,dfrB\_H150R,gyrA\_S84L |
| Nasal Surveillance | USA: Baltimore, MD | blaI,blaR1,blaZ,dfrK,fosB,mecA,tet(38), mepA,mph(C) | murA\_G257D,parC\_S80Y,gyrA\_S84L, |
| Nasal Surveillance | USA: Baltimore, MD | blaI,blaR1,blaZ,dfrS1,erm(C),mecA,mepA,tet(38),tet(K),vga(A) | NA |
| Nasal Surveillance | USA: Baltimore, MD | blaI,blaR1,blaZ,dfrS1,mecA,mepA,tet(38),vga(A) | NA |
| Nasal Surveillance | USA: Baltimore, MD | blaI,blaR1,blaZ,dfrS1,mecA,mepA,tet(38) | NA |
| Nasal Surveillance | USA: Baltimore, MD | blaI,blaR1,blaZ,erm(C),fosB,mecA, tet(38), mepA,mph(C),msr(A) | murA\_G257D,parC\_S80Y,gyrA\_S84L |
| Nasal Surveillance | USA: Baltimore, MD | blaI,blaR1,blaZ,erm(C),fosB,mecA,tet(38), mepA,mph(C) | murA\_G257D,parC\_S80Y,gyrA\_S84L, |
| Nasal Surveillance | USA: Baltimore, MD | blaI,blaR1,blaZ,erm(C),fosB,mecA,,tet(38), mepA | murA\_G257D,parC\_S80Y,rpoB\_Q468K,gyrA\_S84L |
| Nasal Surveillance | USA: Baltimore, MD | blaI,blaR1,blaZ,erm(C),fosB,mecA,tet(38), mepA | murA\_G257D,parC\_S80Y,gyrA\_S84L |
| Nasal Surveillance | USA: Baltimore, MD | blaI,blaR1,blaZ,erm(C),fosB,mecA,mecI,mecR1,mepA,tet(38) | NA |
| Nasal Surveillance | USA: Baltimore, MD | blaI,blaR1,blaZ,erm(C),fosB,mecA,mepA,tet(38) | murA\_G257D |
| Nasal Surveillance | USA: Baltimore, MD | blaI,blaR1,blaZ,erm(C),fosB,mecA,mepA,tet(38) | NA |
| Nasal Surveillance | USA: Baltimore, MD | blaI,blaR1,blaZ,erm(C),fosB,mecA,mepA,tet(38),tet(M) | NA |
| Nasal Surveillance | USA: Baltimore, MD | blaI,blaR1,blaZ,erm(C),mecA,mepA,tet(38) | glpT\_A100V,glpT\_F3I,murA\_D278E,murA\_E291D |
| Nasal Surveillance | USA: Baltimore, MD | blaI,blaR1,blaZ,fexA,fosB,mecA,mepA,tet(38) | NA |
| Nasal Surveillance | USA: Baltimore, MD | blaI,blaR1,blaZ,fosB,mecA,tet(38), mepA,mph(C),msr(A) | murA\_G257D,parC\_S80Y,gyrA\_S84L |
| Nasal Surveillance | USA: Baltimore, MD | blaI,blaR1,blaZ,fosB,mecA,mepA,tet(38) | murA\_G257D,parC\_S80Y,gyrA\_S84L |
| Nasal Surveillance | USA: Baltimore, MD | blaI,blaR1,blaZ,fosB,mecA,mepA ,tet(38),tet(K) | murA\_G257D |
| Nasal Surveillance | USA: Baltimore, MD | blaI,blaR1,blaZ,fosB,mepA,tet(38) | NA |
| Nasal Surveillance | USA: Baltimore, MD | blaI,blaR1,blaZ, mecA,tet(38), mepA,msr(A) | murA\_E291D,murA\_T396N,glpT\_A100V |
| Nasal Surveillance | USA: Baltimore, MD | blaI,blaR1,blaZ,mecA,,tet(38) ,mepA | murA\_E291D,murA\_T396N,glpT\_A100V) |
| Nasal Surveillance | USA: Baltimore, MD | blaI,blaR1,dfrB\_F99Y,fosB,tet(38),mecA,mepA, | gyrA\_S84L,murA\_G257D,parC\_S80Y |
| Nasal Surveillance | USA: Baltimore, MD | blaI,blaR1,erm(C),fosB,gyrA\_S84L,mecA,mepA | murA\_G257D,parC\_S80Y, |
| Nasal Surveillance | USA: Baltimore, MD | blaI,blaR1,fosB,mecA,mepA,tet(38) | NA |
| Nasal Surveillance | USA: Baltimore, MD | blaI,,blaZ,cfr,dfrK,fexA,,tet(38),tet(K),tet(M),mecA,mepA | glpT\_A100V,glpT\_F3I,murA\_D278E,murA\_E291D,parC\_S80F HMM |
| Nasal Surveillance | USA: Baltimore, MD | blaI,blaZ,cfr,erm(C),fexA, ,tet(38),tet(K),tet(M) ,mecA,mepA | glpT\_A100V,glpT\_F3ImurA\_D278E,murA\_E291D HMM |
| Nasal Surveillance | USA: Baltimore, MD | blaI,blaZ,cfr,fexA,mecA,mepA,tet(38),tet(K),tet(M) | murA\_D278E,murA\_E291D,glpT\_A100V,glpT\_F3I HMM |
| Nasal Surveillance | USA: Baltimore, MD | blaI,blaZ,erm(C),mecA,tet(38),mepA | murA\_E291D,murA\_T396N,glpT\_A100V |
| Nasal Surveillance | USA: Baltimore, MD | blaI,dfrK,fexA, mecA,,tet(38),tet(M), mepA | murA\_D278E,murA\_E291D,glpT\_A100V,glpT\_F3I |
| Nasal Surveillance | USA: Baltimore, MD | erm(C),fosB,tet(38),mecA,mepA | gyrA\_S84L,murA\_G257D,parC\_S80Y,rpoB\_S464P,dfrB\_F99Y,dfrB\_H150R |
| Nasal Surveillance | USA: Baltimore, MD | dfrG,erm(C),fosB,mecA,tet(38), mepA | murA\_G257D,parC\_S80Y,gyrA\_S84L |
| Nasal Surveillance | USA: Baltimore, MD | fosB,mecA,tet(38), mepA | murA\_G257D,parC\_S80Y,gyrA\_S84L |