

Supplementary Material

Origin of the mobile di-hydro-pterolate synthase gene determining sulfonamide resistance in clinical isolates

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<i>Leptospira santarosai</i>	VLLNEGITQE-QLIFDPGMGFFLSPDFQVSFEVLRKI
<i>Leptospira interrogans</i>	ILLNAGIAQE-QLIFDPGMGFFLSSDFQVSFEVLRKI
<i>Leptospira alstonii</i>	EMLESGISQE-QLIFDPGMGFFLSPDFQISFEVLRKI
<i>Leptospira biflexa</i>	DLTAMGISSES-SIFFDPGMGFFLSDPMVSFRVLQDL
<i>Sul2 Ecoli 2</i>	ALTGAGIKRN-RLVLDPMGFFLGAAPETSLSVLARF
<i>Sul2 Apleuropneumoniae</i>	ALTGAGIKRN-RLVLDPMGFFLGAAPETSLSVLARF
<i>Sul2 Ecoli 1</i>	ALTGAGIKRN-RLVLDPMGFFLGAAPETSLSVLARF
<i>Parvibaculum lavamentivorans</i>	ALEQAGIARA-RVILDPGMGFFVGPPEPETSFSILARL
<i>Candidatus Phaeomarinobacter</i>	GLAASGIARE-RLVLDPMGFFLGTDPVSVLEVLRHV
<i>Sul1 Cglutamicum</i>	ALRRSGVAAD-RLILDPMGFFLSPAPETSLSHVLSNL
<i>Sul1 Eclocae</i>	ALRRSGVAAD-RLILDPMGFFLSPAPETSLSHVLSNL
<i>Sul3 Ecoli</i>	ALVEAGVKRE-RIILDPMGFFLGSNPETSILVLKRF
<i>Sul3 SCholeraesuis</i>	ALVEAGVKRE-RIILDPMGFFLGSNPETSILVLKRF
<i>Chlamydia trachomatis</i>	QFAQVGLDTSWQVVFDPGIGF--GKTPVQSMMLMDGV
<i>Chlamydia muridarum</i>	TFAQIGLDTSWQVVFDPGIGF--GKTPVQSMQLMGV
<i>Chlamydomphila caviae</i>	AFVALGLRQD-QIIFDPGIGF--GTTQIQALNVLHLM
<i>Chlamydia psittaci</i>	AFVALGLSKD-QIIFDPGIGF--GTTPIQALNVLHLM
<i>Chlamydia felis</i>	AFTALGLNLD-QIIFDPGIGF--GTSPIQALNVLHLM
<i>Chlamydia avium</i>	FCDHLGLDCS-QIIFDPGIGF--GTTSIQAMYILQKM
<i>Chlamydia gallinacea</i>	FCDRLGLDCS-QIIFDPGIGF--GTTSIQAMRIILREM
<i>Chlamydomphila pneumoniae</i>	MFSDVGLNAN-QVIFDPGIGF--GKGAAQSLATLYEI
<i>Parachlamydia acanthamoebae</i>	ELKKNVGVKEE-RIILDPMGIGF--GKTVDDNLQIIQNL
<i>Waddlia chondrophila</i>	ALQKAGIKEN-NIIIDPMGIGF--GKTVEDNYQILHNL

Supplementary Data 3 – Detail of the multiple sequence alignment region containing the two-amino acid signature motif including Sul sequences and FolP sequences from members of the *Rhodobiaceae*, the *Leptospiraceae* and the *Chlamydiae*.