Table S1.
The relative abundance of 308 antibiotic resistance genes (ARGs) in QS-CW, CP-CW and CN-CW.

ARG	QS-CW	CP-CW	CN-CW	ARG	QS-CW	CP-CW	CN-CW
Aac3III	0	0	0.0001131	*OleB*	0.0309958	0.0318787	0.0358145
Aac3IIa	0.0001466	1.74E-05	4.33E-05	*OpcM*	0.0047153	0.0084256	0.0043895
Aac3IIb	0.0001085	0.0001257	0.0006769	*OpmD*	0.008604	0.0028648	0.0012226
Aac3IV	0.0001395	0.0004608	0.0002876	*OprA*	0.01474	0.0123805	0.0057699
Aac3Ia	0.0003369	0.0005051	0.0008615	*OprJ*	0.0030309	0.0034943	0.0020569
Aac3VII	0.0001039	9.72E-05	0.0004882	*OprM*	0.0243132	0.0217039	0.0161327
Aac3VIII	5.21E-05	0.0001053	9.52E-05	*OprN*	0.009078	0.0135453	0.0085979
Aac3X	0.0002714	0.0005414	0.0003533	*PmrA*	0.0001044	3.81E-06	0.0017467
Aac6I	0.0002407	0.0002341	2.14E-05	*Qac*	0.0078181	0.0014841	0.0006081
Aac6IIa	0.0003602	0.0006802	7.80E-05	*QacA*	0.0005454	0.0007216	0.0002788
Aac6IIb	0	0	0	*QacB*	0.0003456	0.0006158	0.0012673
Aac6Ia	2.23E-05	0	0.0008225	*QnrA*	0.0003204	0.0004116	4.55E-05
Aac6Ib	0.0076457	0.0023186	0.001613	*QnrS*	0.0001904	0.0007001	6.46E-06
Aac6Ic	0.0002128	0.0003407	6.84E-05	*RosA*	0.0034854	0.0056541	0.0013206
Aac6Ie	8.76E-05	2.84E-05	0	*RosB*	0.0199256	0.0285	0.0209472
Aac6If	4.06E-05	0.000112	0.0001913	*SmeA*	0.0041527	0.0056513	0.0050875
Aac6Ig	4.26E-05	6.50E-05	8.59E-05	*SmeB*	0.0037646	0.005324	0.0052505
AcrA	0.0174745	0.0208613	0.0207633	*SmeC*	0.0021803	0.003681	0.0004989
AcrB	0.0313527	0.0242718	0.026554	*SmeD*	0.0168036	0.012598	0.0092007
AdeA	0.0030709	0.0027618	0.0016686	*SmeE*	0.0031116	0.0055525	0.0030885
AdeB	0.0068939	0.0083746	0.0069366	*SmeF*	0.0101944	0.0035615	0.0041562
AdeC	0.0009475	0.0019074	0.0014457	*SrmB*	0.0229846	0.0246554	0.0237502
AmrA	0.0043068	0.0049547	0.0039832	*Sul1*	0.0280881	0.0168398	0.0071998
AmrB	0.0083761	0.0139809	0.0087168	*Sul2*	0.0136443	0.0100949	0.0103543
Ant2Ia	0.0088744	0.0025099	0.0010832	*Sul3*	0.006642	0.0088046	0.0051733
Ant2Ib	0.0001669	0.0003111	0	*TlrC*	0.0336362	0.0330569	0.0367628
Ant3Ia	0.0098157	0.0020681	0.000556	*TolC*	0.0087647	0.015317	0.0128908
Ant6Ia	0.0002761	3.07E-05	0.0006715	*VanA*	0.0017826	0.001231	0.0038876
Aph33Ib	0.0091375	0.0020495	0.0003092	*VanB*	0.0006571	0.0018174	0.0019562
Aph3IIIa	3.88E-05	6.66E-05	0.0002419	*VanC*	0.0023417	0.0040443	0.0040561
Aph3IVa	0.0001425	8.66E-05	8.29E-05	*VanD*	0.0109623	0.0051221	0.0043276
Aph3Ia	0.0004635	0.0006621	9.24E-05	*VanE*	0.00189	0.0018265	0.0026877
Aph3Ib	0.0002372	0.0005059	0.0001082	*VanG*	0.005197	0.0049373	0.0060185
Aph3Ic	0.0002146	0.0007558	2.10E-05	*VanHA*	0.0098862	0.0106784	0.0126347
Aph3Va	8.81E-05	0.0001436	0	*VanHB*	0.0151274	0.0202467	0.0185794
Aph6Ia	0	0	0	*VanHD*	0.0103181	0.0146194	0.0157146
Aph6Ib	0	0	0.0006024	*VanRA*	0.0511786	0.0512937	0.0479034
Aph6Ic	0.0006194	0.0014121	0.0003644	*VanRB*	0.0730483	0.0665279	0.0569533
Aph6Id	0.0097423	0.0022725	0.0003922	*VanRC*	0.0398894	0.0429581	0.0443555
BL1_acc	0.0003826	0.0004995	0.0001671	*VanRD*	0.002989	0.003655	0.0059303
BL1_ampc	0.002963	0.0050698	0.0021475	*VanRE*	0.0435202	0.0398431	0.0511849

BL1_ceps	0.0001999	0.000997	0.0001129	*VanRG*	0.038202	0.0432741	0.0571003
BL1_cmy2	0.0002196	0.0004673	0.0005276	*VanSA*	0.0474958	0.0451321	0.0614654
BL1_ec	0.000176	0.0005736	0.0007703	*VanSB*	0.0202272	0.0192154	0.0175072
BL1_fox	5.23E-05	0.000104	0.0009699	*VanSC*	0.039652	0.0270316	0.0273127
BL1_mox	0.0005158	0.0007317	0.0002053	*VanSD*	0.070411	0.0774047	0.0917325
BL1_och	9.28E-05	9.38E-05	0	*VanSE*	0.0174733	0.020334	0.0196664
BL1_pao	0.0004104	0.0007628	0.0005584	*VanSG*	0.0211343	0.0265277	0.0323059
BL1_pse	0.0006322	0.0010487	0.000255	*VanT*	0.0009429	0.0004116	0.0029561
BL1_sm	0.0037235	0.0054547	0.0029304	*VanTE*	0.0013341	0.002135	0.0015254
BL2_ges	0.0003137	0.0005236	3.90E-05	*VanTG*	0.016443	0.010881	0.0103372
BL2_kpc	4.35E-05	0.000304	0.0009646	*VanUG*	0.0006313	7.43E-05	3.96E-05
BL2_veb	0.0010861	0.0012231	0.000494	*VanWB*	0	0	0.0005201
BL2a_1	0	2.93E-05	0.0001122	*VanWG*	0.000546	0.0009483	0.0004264
BL2a_III2	2.75E-05	8.27E-05	0	*VanXA*	0.0024268	0.0020872	0.0010895
BL2a_exo	0.0001278	0.0001892	0.000149	*VanXB*	4.10E-05	3.94E-05	0.0006133
BL2a_nps	0.0001228	0.000282	7.63E-05	*VanXD*	0	3.28E-05	0.0001049
BL2a_okp	4.50E-05	7.91E-05	1.73E-05	*VanYA*	0.0001507	5.78E-05	1.42E-05
BL2b_rob	6.10E-05	8.56E-05	0	*VanYB*	6.47E-05	6.16E-05	5.96E-06
BL2b_tem	0.0011973	0.000899	0.0002675	*VanYD*	0.0008374	0.0008493	0.0024959
BL2b_tle	0.0001053	0.0003898	0.0002221	*VatA*	0.0001626	0.0003205	8.50E-05
BL2be_ctxm	7.79E-05	0.0003726	4.62E-05	*VatB*	0.0035782	0.0045402	0.0052622
BL2be_oxy1	0	0	0.0001787	*VatC*	0.0007695	0.0016015	0.0001179
BL2be_per	0.0001629	0.0006151	0.0003	*VatD*	9.01E-05	0.0001107	0
BL2be_shv2	0.000126	0.0004778	0.0001092	*VatE*	0.0005775	0.0004334	0.0005833
BL2c_bro	0.0001287	0.0003907	1.81E-05	*VgaA*	0.011623	0.0113667	0.0094134
BL2c_pse1	0.0004784	0.0002842	7.63E-05	*VgaB*	0.0249586	0.0175144	0.0126615
BL2c_pse3	0.0006565	0.0011301	0.0001021	*VgbA*	0.0010724	0.0006489	0.0007828
BL2d_lcr1	0.0012321	0.0015177	0.0007758	*VgbB*	0	0	0.0001856
BL2d_oxa1	0.0091296	0.0004634	2.74E-05	*YkkC*	0.0020041	0.0032145	0.0018947
BL2d_oxa10	0.0017345	0.0013193	0.0002864	*YkkD*	0.0032819	0.0057077	0.0019399
BL2d_oxa2	0.0018236	0.0021756	0.0016159	*aad9Ib*	0.0002659	2.70E-05	0.000254
BL2d_oxa5	0.0020434	0.001583	0.0008445	*arnA*	0.0380182	0.0234913	0.0228934
BL2d_oxa9	0.0003025	0.0004425	0.0001409	*catA16*	0.0001641	3.99E-05	0
BL2d_r39	0	0	0	*catA2*	0	0	0
BL2e_cbla	1.39E-05	4.88E-05	3.21E-05	*catA3*	1.29E-05	3.61E-05	0.0003265
BL2e_fpm	3.29E-05	0.0002922	0	*catA6*	0.0001921	0.0001514	4.43E-05
BL2e_y56	0.0007652	0.0006869	0.000484	*catB1*	0.0011074	0.001295	0.0021765
BL2f_sme1	0	3.58E-05	0	*catB2*	0.000171	0.0003779	0.000868
BL3_ccra	0.0011634	0.0008911	0.0004531	*catB3*	0.0093723	0.003274	0.0008625
BL3_cphA	0.0002591	0.0004034	0.0016706	*catB4*	0.0003298	0.0005	0.0001979
BL3_gim	0	0	2.61E-05	*catB5*	0.0003725	0.0008658	8.28E-05
BL3_imp	0.0001259	0.0003461	0.0002387	*cml_e1*	0.0006712	0.0008793	0.0004519
BL3_l	0.0034041	0.0061272	0.0022208	*cml_e3*	0.0042891	0.0074451	0.0036938
BL3_shw	0.0003313	0.000561	6.71E-05	*cml_e4*	0.0002776	0.000354	0.0006313

BL3_sim	0.000163	8.69E-05	0	*cml_e5*	1.64E-05	6.93E-05	0
BacA	0.0278745	0.0239383	0.0245899	*cml_e6*	0.0010821	0.0026153	0.0002133
Bcr	0.0117521	0.0080887	0.0062518	*cml_e7*	0.0005131	0.0011888	0.0004175
BcrA	0.3219773	0.2579878	0.2582885	*cml_e8*	0.0008615	0.0014047	0.00022
BcrC	2.54E-05	5.35E-05	0.0001316	*dfrA1*	7.91E-05	8.64E-05	1.01E-05
Blt	0.0002476	0.0005526	0.0004399	*dfrA12*	7.87E-05	0.0001156	0.0003206
Bmr	3.12E-05	7.67E-05	0.0001687	*dfrA13*	9.94E-05	8.23E-05	3.14E-05
CarA	0.0813666	0.0578364	0.0572316	*dfrA15*	0	0	0
CeoA	0.0313078	0.0259744	0.0176982	*dfrA20*	0.0094273	0.0027376	0.0010829
CeoB	0.0332648	0.0391997	0.0249149	*dfrA21*	9.20E-05	0.0001645	0.0009366
EmeA	0.0082473	0.00131	0.0031584	*dfrA22*	0.0020324	0.0038159	0.0016653
EmrD	0.0008282	0.0016168	0.0012767	*dfrA23*	0.000489	0.0001154	6.33E-05
EmrE	0.0128738	0.0092199	0.0040949	*dfrA24*	0.0001735	0.0001874	0
EreA	0.0017493	0.0018547	0.0009086	*dfrA26*	0.0041446	0.0077008	0.0069809
EreB	0.0005455	0.000322	3.86E-05	*dfrA5*	0.0002722	1.28E-05	0
ErmA	8.90E-05	4.63E-05	0.0007682	*dfrB2*	2.78E-05	4.55E-05	0
ErmB	0.0001918	3.41E-05	0.0005025	*lsa*	0.0041376	0.0045024	0.0012749
ErmC	7.03E-05	0.0001091	1.24E-05	*mdtE*	0.001172	0.00232	0.0029828
ErmD	0.0009516	0.0003522	0.0007063	*mdtF*	0.0025891	0.0051604	0.0010726
ErmE	0.0007534	0.0002513	0.0005368	*mdtG*	0.000739	0.0005794	0.0019813
ErmF	0.0023389	0.0013176	0.0003956	*mecA*	0.0010842	0.0016764	0.0011114
ErmG	0.0003973	6.30E-05	5.53E-06	*norM*	0.002823	0.0061136	0.0016328
ErmH	0.0007692	0.0003467	0.0001823	*otrA*	0.0407939	0.030199	0.0362185
ErmN	0	0	0.0001637	*otrB*	0.0015926	0.0023964	0.0015088
ErmO	0.0002348	5.40E-05	0.000456	*pac*	0.0005748	0.0005959	0.0009161
ErmQ	0.0019466	0.0007249	0.000958	*pbp1a*	0.0546316	0.0573192	0.0538531
ErmR	6.75E-05	2.03E-05	0.0007363	*pbp1b*	0.0084013	0.0109569	0.008166
ErmS	3.54E-05	0.0001024	2.94E-05	*pbp2*	0.0217254	0.0175107	0.0188267
ErmU	0.0001514	0.000186	0.0003591	*pbp2b*	0.0243841	0.0196474	0.0219691
ErmV	0	0	0.0005344	*pbp2x*	0.0014189	0.0006271	0.0019906
ErmW	0	0	0.0006253	*pur8*	0.0018338	0.0031699	0.0033884
ErmY	6.42E-05	3.82E-05	1.14E-05	*sta*	1.66E-05	4.09E-05	2.88E-05
FosA	3.04E-05	9.26E-05	0	*str*	0.0011132	0.0007797	0.000463
FosX	0.0001594	0.0003709	9.03E-05	*tcmA*	0.008894	0.0089302	0.0113841
KsgA	0.0193077	0.0177758	0.0125797	*tcr3*	0.0009763	0.0014661	0.0017178
LmrA	0.0004127	0.0007058	0.0010086	*tet*	0.0022029	0.0016094	0.0030475
LmrB	0.0005912	0.0007726	0.0005254	*tet30*	0.0009371	0.0008775	0.0007111
LnuA	1.84E-05	0	4.25E-05	*tet31*	0	0	0.0005357
LnuB	0.0018631	0.001298	0.0015689	*tet32*	0.0019007	0.0013504	0.0010367
MacB	0.6873951	0.624148	0.60281	*tet33*	0.0017272	0.0010542	0.0001582
MdfA	0.0068869	0	0	*tet34*	0.0013279	0.0021018	0.0004385
Mdr	0.0249097	0.0131641	0.0109163	*tet36*	0.0035215	0.004952	0.0032623
MdtH	0.0010069	0.0008856	0.0013308	*tet37*	0.0073544	0.0040325	0.0054319
MdtK	0.0110722	0.0075126	0.0010285	*tet39*	0.0015421	0.0010711	0.0033242

MdtL	0.0003156	0.0004771	0.0002955	*tet40*	0.0003003	6.79E-05	0.0003438
MdtM	0.0002845	0.0004311	0	*tet41*	0.0065301	0.0089404	0.004813
MdtN	0.0193564	0.0172675	0.0088679	*tetA*	0.0011557	0.0021578	0.0004399
MdtO	4.56E-05	9.45E-05	0.000133	*tetB*	0	3.66E-05	0.0001564
MdtP	0.0012254	0.0025652	0.0006072	*tetC*	0.0147201	0.0087559	0.0039825
MecR1	0.0041151	0.0048773	0.0009884	*tetD*	0	0	6.79E-05
MefA	0.0029105	0.001392	0.0035194	*tetE*	6.09E-05	0.0002758	0.0001399
MepA	0.0021026	0.0013783	0.0001183	*tetG*	0.002527	0.0049674	0.0005476
MexA	0.0022147	0.0032084	0.0020546	*tetH*	0.0003218	0.0002352	6.21E-05
MexB	0.0034618	0.0061543	0.006027	*tetJ*	4.93E-05	0.0001364	0.0001921
MexC	0.0175364	0.0058773	0.0030611	*tetK*	2.06E-05	0	0.0002954
MexD	0.019824	0.030631	0.0212018	*tetL*	3.33E-05	8.58E-05	0.0002199
MexE	0.008394	0.0149136	0.0051678	*tetM*	0.0101796	0.0145628	0.0099767
MexF	0.0512795	0.0652966	0.0489212	*tetO*	0.0046947	0.007717	0.0061009
MexH	0.0188532	0.0269486	0.0178743	*tetPA*	0.0017047	0.0004841	0.0016599
MexI	0.0144722	0.0167602	0.0152322	*tetPB*	0.0431522	0.0397589	0.0450725
MexW	0.0659639	0.0856801	0.0708959	*tetQ*	0.0017623	0.0032423	0.0014297
MexX	0.0015234	0.0016867	0.0043437	*tetS*	0.0019449	0.0022889	0.0025519
MexY	0.0105183	0.0149064	0.0075227	*tetT*	0.0199164	0.0165083	0.0155985
MfpA	0.0007229	0.0005627	0.0009279	*tetV*	5.43E-05	0.0001855	0.0006044
MphA	0.0016889	0.0024015	0.0002339	*tetW*	0.0493076	0.0343338	0.0298162
MphB	8.11E-05	0	0	*tetX*	0.0017614	0.0021869	6.47E-05
MphC	0.0107733	0.0010876	0.0004618	*tetY*	0.0006121	0.0005976	0.0001033
MsrA	0.0016711	0.0015546	0.0018398	*tetZ*	0.0005747	0.0005192	0.0008331
NorA	0.0026809	0.0039944	0.0034754	*tsnr*	0.0053883	0.006212	0.0046352