

Supplementary Table 1 – Mean MIC and MBEC STRPN vs Levofloxacin , Mean MIC and MBEC STRPN vs Linezolid

	Organism No	mg/L				Organism No	mg/L		
		MIC	MBECCC	MBECNBT			MIC	MBECCC	MBECNBT
Levofloxacin	STRPN 1	1	>128	>128	Linezolid	STRPN 1	2	64	64
	STRPN 2	0.5	128	128		STRPN 2	2	128	128
	STRPN 3	0.5	128	64		STRPN 3	2	128	128
	STRPN 4	2	128	64		STRPN 4	2	128	128
	STRPN 5	1	128	64		STRPN 5	2	128	64
	STRPN 6	1	128	64		STRPN 6	1	128	128
	STRPN 7	1	128	64		STRPN 7	2	64	64
	STRPN 8	1	128	64		STRPN 8	0.5	64	64
	STRPN 9	0.25	16	16		STRPN 9	0.5	8	16
	STRPN 10	1	32	32		STRPN 10	2	64	64
	STRPN 11	1	64	32		STRPN 11	0.5	16	8
	STRPN 12	0.5	16	16		STRPN 12	0.5	16	16
	STRPN 13	1	16	8		STRPN 13	0.5	4	8
	STRPN 14	0.25	8	8		STRPN 14	1	128	128
	STRPN 15	0.5	32	32		STRPN 15	1	64	128
	STRPN 16	1	32	64		STRPN 16	2	32	32
	STRPN 17	1	4	8		STRPN 17	1	32	64
	STRPN 18	0.25	1	0.5		STRPN 18	1	2	4
	STRPN 19	0.5	0.5	1		STRPN 19	0.5	1	2
	STRPN 20	2	2	4		STRPN 20	1	2	4
	STRPN 21	1	16	8		STRPN 21	1	16	8
	STRPN 22	1	8	8		STRPN 22	1	32	32
	STRPN 23	0.5	16	8		STRPN 23	1	4	8
	STRPN 24	1	32	32		STRPN 24	1	32	32
	STRPN 25	1	32	32		STRPN 25	2	64	64
	STRPN 26	0.5	16	32		STRPN 26	2	64	32
	STRPN 27	0.5	32	32		STRPN 27	2	128	128
	STRPN 28	0.5	16	16		STRPN 28	1	128	128
	STRPN 29	2	16	32		STRPN 29	1	64	32
	STRPN 30	1	16	16		STRPN 30	0.5	16	16
	STRPN 31	1	64	64		STRPN 31	1	128	128
	STRPN 32	2	128	>128		STRPN 32	1	128	128
		MIC Rep 1-3	MBECCC 1-3	MBECNBT 1-3			MIC Rep 1-3	MBECCC 1-3	MBECNBT 1-3
	QC 49619	0.5	64	64		QC 49619	1	128	128
	QC 49619	1	64	64		QC 49619	1	64	64
	QC 49619	1	32	64		QC 49619	1	128	128
		MIC Rep 4-6	MBECCC 4-6	MBECNBT 4-6			MIC Rep 4-6	MBECCC 4-6	MBECNBT 4-6
	QC 49619	0.5	32	32		QC 49619	2	128	>128
	QC 49619	0.5	64	64		QC 49619	2	64	128
	QC 49619	0.5	64	64		QC 49619	2	128	128

Supplementary Table 2 – Mean MIC and MBEC Staph. aureus vs Vancomycin , Mean MIC and MBEC Staph. Aureus vs ciprofloxacin

	Organism No	mg/L				Organism No	mg/L		
		MIC	MBECCC	MBECNBT			MIC	MBECCC	MBECNBT
Vancomycin	STAAU 1	0.5	1	2	Ciprofloxacin	STAAU 1	0.25	4	4
	STAAU 2	1	4	4		STAAU 2	0.5	8	16
	STAAU 3	0.5	0.5	2		STAAU 3	0.5	2	2
	STAAU 4	1	1	2		STAAU 4	0.5	4	8
	STAAU 5	0.5	16	>16		STAAU 5	0.25	16	>16
	STAAU 6	0.5	1	1		STAAU 6	0.25	0.5	2
	STAAU 7	0.5	1	2		STAAU 7	0.25	4	4
	STAAU 8	0.5	1	2		STAAU 8	0.25	8	8
	STAAU 9	0.5	2	1		STAAU 9	0.25	8	8
	STAAU 10	0.5	1	1		STAAU 10	0.12	2	2
	STAAU 11	0.5	2	2		STAAU 11	0.25	2	2
	STAAU 12	0.5	2	2		STAAU 12	0.06	2	1
	STAAU 13	0.5	2	2		STAAU 13	0.06	2	2
	STAAU 14	0.5	2	1		STAAU 14	0.5	16	16
	STAAU 15	0.5	2	2		STAAU 15	0.25	2	1
	STAAU 16	0.5	8	16		STAAU 16	0.25	2	2
	STAAU 17	0.5	1	1		STAAU 17	0.12	1	2
	STAAU 18	0.5	0.5	1		STAAU 18	0.12	2	2
	STAAU 19	0.5	0.5	1		STAAU 19	0.12	2	2
	STAAU 20	1	0.25	1		STAAU 20	0.12	2	2
	STAAU 21	0.5	0.5	2		STAAU 21	0.5	4	2
	STAAU 22	0.5	0.25	1		STAAU 22	0.25	2	4
	STAAU 23	0.5	0.5	1		STAAU 23	0.25	2	4
	STAAU 24	0.5	1	2		STAAU 24	0.25	16	8
	STAAU 25	0.5	2	1		STAAU 25	0.12	2	1
	STAAU 26	0.5	2	2		STAAU 26	0.12	2	2
	STAAU 27	0.5	2	2		STAAU 27	0.06	2	4
	STAAU 28	1	8	8		STAAU 28	0.25	2	4
	STAAU 29	0.5	1	0.5		STAAU 29	0.06	2	2
	STAAU 30	0.5	1	2		STAAU 30	0.25	2	4
		MIC Rep 1-3	MBECCC 1-3	MBECNBT 1-3			MIC Rep 1-3	MBECCC 1-3	MBECNBT 1-3
	QC 29213	1	2	2		QC 29213	0.25	2	2
	QC 29213	1	1	1		QC 29213	0.25	2	4
	QC 29213	1	2	2		QC 29213	0.25	2	4
		MIC Rep 4-6	MBECCC 4-6	MBECNBT 4-6			MIC Rep 4-6	MBECCC 4-6	MBECNBT 4-6
	QC 29213	1	2	2		QC 29213	0.5	2	2
	QC 29213	1	2	2		QC 29213	0.25	2	2
	QC 29213	1	2	2		QC 29213	0.25	2	2

Supplementary Table 3 – Mean MIC and MBEC E. coli vs Ciprofloxacin, Mean MIC and MBEC E.coli vs Piperacillin /Tazobactam

	Organism No	mg/L				Organism No	mg/L		
		MIC	MBECCC	MBECNBT			MIC	MBECCC	MBECNBT
Ciprofloxacin	ESCCO 1	0.008	0.12	0.06	Piperacillin- Tazobactam	ESCCO 1	0.008	0.5	0.5
	ESCCO 2	>1	>1	1		ESCCO 2	4	16	16
	ESCCO 3	>1	>1	>1		ESCCO 3	8	16	>16
	ESCCO 4	0.008	0.12	0.03		ESCCO 4	0.12	2	2
	ESCCO 5	0.004	0.008	0.008		ESCCO 5	0.06	0.5	0.5
	ESCCO 6	0.25	0.25	0.25		ESCCO 6	0.25	2	2
	ESCCO 7	0.008	0.008	0.008		ESCCO 7	0.06	1	2
	ESCCO 8	<0.002	0.004	0.008		ESCCO 8	0.015	2	2
	ESCCO 9	0.25	0.5	0.25		ESCCO 9	0.03	2	2
	ESCCO 10	0.015	0.12	0.25		ESCCO 10	0.015	1	1
	ESCCO 11	0.015	0.03	0.25		ESCCO 11	0.03	2	2
	ESCCO 12	0.008	0.015	0.015		ESCCO 12	0.03	2	2
	ESCCO 13	0.008	0.004	0.004		ESCCO 13	0.015	1	1
	ESCCO 14	0.25	0.25	0.25		ESCCO 14	0.06	2	2
	ESCCO 15	0.25	>1	1		ESCCO 15	0.12	1	1
	ESCCO 16	0.25	>1	1		ESCCO 16	0.12	0.5	0.5
	ESCCO 17	>1	>1	>1		ESCCO 17	4	>16	>16
	ESCCO 18	0.015	0.06	0.03		ESCCO 18	0.03	1	1
	ESCCO 19	>1	>1	>1		ESCCO 19	8	8	16
	ESCCO 20	0.015	0.015	0.015		ESCCO 20	0.03	1	1
	ESCCO 21	0.12	0.5	0.5		ESCCO 21	0.015	0.5	0.5
	ESCCO 22	>1	>1	>1		ESCCO 22	0.25	0.25	0.25
	ESCCO 23	0.008	0.25	1		ESCCO 23	4	16	16
	ESCCO 24	0.008	0.03	0.015		ESCCO 24	0.12	1	1
	ESCCO 25	0.008	0.008	0.008		ESCCO 25	0.12	1	1
	ESCCO 26	0.008	0.008	0.015		ESCCO 26	0.25	1	2
	ESCCO 27	0.004	0.004	0.008		ESCCO 27	0.03	1	4
	ESCCO 28	0.015	0.015	0.03		ESCCO 28	0.12	1	1
	ESCCO 29	0.015	0.015	0.015		ESCCO 29	0.03	1	1
	ESCCO 30	0.015	0.008	0.015		ESCCO 30	0.03	1	1
		MIC Rep 1-3	MBECCC 1-3	MBECNBT 1-3			MIC Rep 1-3	MBECCC 1-3	MBECNBT 1-3
	QC 25922	0.004	0.008	0.008		QC 25922	4	16	16
	QC 25923	0.004	0.015	0.015		QC 25923	4	8	8
	QC 25924	0.008	0.008	0.015		QC 25924	4	16	8
		MIC Rep 4-6	MBECCC 4-6	MBECNBT 4-6			MIC Rep 4-6	MBECCC 4-6	MBECNBT 4-6
	QC 25922	0.008	0.015	0.15		QC 25922	4	16	16
	QC 25923	0.008	0.008	0.008		QC 25923	2	8	8
	QC 25924	0.008	0.008	0.008		QC 25924	4	8	16

Supplementary Table 4 – Mean MIC and MBEC *Pseudomonas aeruginosa* vs ciprofloxacin, Mean MIC MBEC *Pseudomonas aeruginosa* vs Colistin

	Organism No	mg/L				Organism No	mg/L		
		MIC	MBECC	MBECNT			MIC	MBECC	MBECNT
Ciprofloxacin	PSEAE 1	0.12	0.25	0.5	Colistin	PSEAE 1	0.5	2	1
	PSEAE 2	0.12	0.25	0.5		PSEAE 2	0.06	0.5	2
	PSEAE 3	0.06	0.12	0.25		PSEAE 3	0.12	1	0.5
	PSEAE 4	0.06	0.25	0.5		PSEAE 4	0.12	0.5	0.5
	PSEAE 5	0.12	0.5	0.5		PSEAE 5	0.25	0.5	0.5
	PSEAE 6	<0.008	0.12	0.12		PSEAE 6	0.06	1	2
	PSEAE 7	0.12	0.06	0.06		PSEAE 7	0.25	0.5	0.5
	PSEAE 8	0.12	0.12	0.5		PSEAE 8	0.25	4	2
	PSEAE 9	0.12	0.06	0.25		PSEAE 9	0.12	0.25	0.5
	PSEAE 10	0.06	0.06	0.06		PSEAE 10	0.25	0.25	1
	PSEAE 11	0.25	0.25	0.25		PSEAE 11	0.5	0.5	0.5
	PSEAE 12	0.06	0.12	0.12		PSEAE 12	0.5	8	4
	PSEAE 13	0.12	0.06	0.12		PSEAE 13	0.25	0.25	0.5
	PSEAE 14	0.12	0.06	0.25		PSEAE 14	0.12	0.25	0.25
	PSEAE 15	0.06	0.12	0.25		PSEAE 15	0.5	1	2
	PSEAE 16	0.12	0.12	0.5		PSEAE 16	0.25	0.5	0.5
	PSEAE 17	0.5	2	4		PSEAE 17	2	4	4
	PSEAE 18	0.12	0.25	0.12		PSEAE 18	0.12	0.12	0.5
	PSEAE 19	0.06	0.5	0.5		PSEAE 19	0.25	0.5	1
	PSEAE 20	0.12	0.5	0.5		PSEAE 20	0.25	0.5	0.5
	PSEAE 21	0.06	0.5	0.25		PSEAE 21	0.12	0.25	0.5
	PSEAE 22	0.06	0.12	1		PSEAE 22	0.12	2	2
	PSEAE 23	8	8	16		PSEAE 23	4	16	16
	PSEAE 24	32	128	128		PSEAE 24	8	256	128
	PSEAE 25	128	128	256		PSEAE 25	8	256	256
	PSEAE 26	0.12	0.25	0.5		PSEAE 26	0.12	1	2
	PSEAE 27	8	256	256		PSEAE 27	4	128	128
	PSEAE 28	64	64	64		PSEAE 28	16	64	128
	PSEAE 29	0.25	0.5	0.5		PSEAE 29	0.12	0.25	0.25
	PSEAE 30	0.06	1	0.5		PSEAE 30	0.06	0.5	0.5
		MIC Rep 1-3	MBECC 1-3	MBECNT 1-3			MIC Rep 1-3	MBECC 1-3	MBECNT 1-3
	QC 27853	0.25	2	2		QC 27853	1	4	4
	QC 27853	0.25	1	1		QC 27853	1	2	4
	QC 27853	0.12	2	4		QC 27853	1	4	4
		MIC Rep 4-6	MBECC 4-6	MBECNT 4-6			MIC Rep 4-6	MBECC 4-6	MBECNT 4-6
	QC 27853	0.12	2	2		QC 27853	1	4	4
	QC 27853	0.12	2	4		QC 27853	0.5	4	4
	QC 27853	0.12	2	2		QC 27853	1	4	8

Supplementary Table 5 - Mean MIC and MBEC *Klebsiella pneumoniae* vs ciprofloxacin, Mean MIC and MBEC *Klebsiella pneumoniae* vs Colistin

	Organism No	mg/L				Organism No	mg/L		
		MIC	MBEC CC	MBEC NBT			MIC	MBEC CC	MBEC NBT
Ciprofloxacin	KLEPN 1	0.25	0.5	0.5	Colistin	KLEPN 1	0.25	16	16
	KLEPN 2	0.008	0.03	0.03		KLEPN 2	0.25	0.5	0.5
	KLEPN 3	0.008	0.5	0.25		KLEPN 3	0.25	1	1
	KLEPN 4	0.015	0.12	0.12		KLEPN 4	0.25	4	4
	KLEPN 5	0.015	0.25	0.25		KLEPN 5	0.25	8	8
	KLEPN 6	0.25	0.25	0.25		KLEPN 6	0.25	0.5	0.5
	KLEPN 7	1	>32	>32		KLEPN 7	0.25	1	1
	KLEPN 8	2	4	4		KLEPN 8	0.25	4	8
	KLEPN 9	2	8	4		KLEPN 9	0.25	2	2
	KLEPN 10	2	4	4		KLEPN 10	0.25	16	16
	KLEPN 11	1	16	16		KLEPN 11	0.5	32	32
	KLEPN 12	2	4	4		KLEPN 12	0.25	8	8
	KLEPN 13	0.5	4	4		KLEPN 13	0.25	1	1
	KLEPN 14	0.25	8	8		KLEPN 14	0.5	>128	>128
	KLEPN 15	4	4	4		KLEPN 15	1	16	16
	KLEPN 16	4	16	16		KLEPN 16	0.5	4	4
	KLEPN 17	0.25	2	4		KLEPN 17	1	8	8
	KLEPN 18	1	4	4		KLEPN 18	0.5	0.5	0.5
	KLEPN 19	1	8	8		KLEPN 19	0.5	1	1
	KLEPN 20	0.5	4	4		KLEPN 20	0.25	4	4
	KLEPN 21	8	>32	>32		KLEPN 21	0.5	>128	>128
	KLEPN 22	0.5	16	16		KLEPN 22	0.5	64	64
	KLEPN 23	4	>32	>32		KLEPN 23	0.5	16	16
	KLEPN 24	1	2	2		KLEPN 24	0.25	1	1
	KLEPN 25	4	32	16		KLEPN 25	0.25	2	1
	KLEPN 26	8	16	16		KLEPN 26	0.25	4	4
	KLEPN 27	4	>32	>32		KLEPN 27	0.25	16	16
	KLEPN 28	1	16	16		KLEPN 28	0.25	8	8
	KLEPN 29	0.03	0.5	1		KLEPN 29	0.5	>128	>128
	KLEPN 30	1	4	4		KLEPN 30	0.5	8	8
	KLEPN 31	4	8	8		KLEPN 31	0.5	64	64
	KLEPN 32	0.03	1	0.5		KLEPN 32	0.25	2	2
		MIC Rep 1-3	MBEC CC 1-3	MBEC NBT 1-3			MIC Rep 1-3	MBEC CC 1-3	MBEC NBT 1-3
	QC 700603	0.5	4	4		QC 700603	0.5	8	8
	QC 700603	0.5	4	4		QC 700603	1	4	8
	QC 700603	0.5	4	4		QC 700603	1	8	8
		MIC Rep 4-6	MBEC CC 4-6	MBEC NBT 4-6			MIC Rep 4-6	MBEC CC 4-6	MBEC NBT 4-6
	QC 700603	0.5	4	4		QC 700603	1	8	8
	QC 700603	0.5	4	4		QC 700603	1	8	8
	QC 700603	0.25	4	4		QC 700603	1	8	8

Sup table 6 – CFU/mL raw data

	Planktonic											
	GC			X2			X4			X8		
0	1800000	1300000	1900000	1700000	1200000	1100000	1000000	1300000	1800000	1400000	1500000	1600000
2	8700000	9200000	7700000	580000	720000	810000	620000	540000	710000	520000	470000	630000
4	1.8E+08	4E+08	4E+08	120000	220000	240000	95000	120000	550000	210000	180000	110000
8	4E+08	4E+08	4E+08	62000	74000	82000	36000	71000	28000	52000	93000	12000
24	4E+08	4E+08	4E+08	5600	1200	8200	72	9	9100	92	1500	1
	Biofilm											
	GC			X2			X4			X8		
0	1200000	1600000	1900000	1000000	1100000	890000	1300000	1700000	1200000	1600000	1900000	1900000
2	8200000	12000000	22000000	1500000	1800000	1100000	1100000	1500000	1000000	820000	910000	57000
4	55000000	62000000	82000000	3200000	4200000	1200000	720000	810000	73000	120000	136000	92000
8	1.2E+08	2.5E+08	4E+08	9200000	4800000	7100000	81000	110000	52000	82000	72000	51000
24	4E+08	4E+08	4E+08	12000000	5200000	9100000	53000	320000	130000	650	12000	180000
	KLEPN	vs	CIPRO									
	Planktonic											
	GC			X2			X4			X8		
0	1600000	1800000	2100000	1300000	1700000	1200000	1900000	1700000	1000000	1500000	1500000	1900000
2	8200000	9200000	4700000	820000	910000	900000	1100000	720000	620000	120000	380000	170000
4	4E+08	4E+08	32000000	53000	74000	81000	28000	36000	32000	16000	22000	72000
8	4E+08	4E+08	4E+08	61000	52000	74000	310000	110000	130000	8200	6300	7100
24	4E+08	3.8E+08	4E+08	5200000	4200000	3800000	590000	1400	360000	25	5200	14000
	Biofilm											
	GC			X2			X4			X8		
0	2300000	1700000	1500000	1200000	1900000	1800000	1700000	1500000	1200000	960000	1400000	1500000
2	5900000	12000000	7200000	2500000	1800000	2000000	2200000	2900000	1300000	1600000	1200000	1300000
4	20000000	32000000	17000000	5200000	6700000	4200000	3200000	4100000	2000000	1000000	960000	1100000
8	4E+08	4E+08	4E+08	12000000	22000000	9200000	3100000	5200000	2200000	880000	910000	860000
24	4E+08	4E+08	4E+08	15000000	30000000	14000000	3200000	7200000	2800000	120000	7200	820000
	STRPN	vs	LEVO									
	Planktonic											
	GC			X2			X4			X8		
0	1600000	1700000	1200000	1800000	1600000	1200000	1200000	1900000	2100000	1500000	1000000	1400000
2	6200000	7100000	5600000	1100000	880000	720000	860000	780000	1600000	620000	710000	530000
4	9100000	9800000	11000000	520000	690000	620000	320000	120000	850000	120000	63000	77000
8	25000000	32000000	4E+08	32000	52000	61000	150000	22000	27000	9900	14000	920
24	4E+08	4E+08	4E+08	18000000	2700000	2100000	610000	120000	240000	3200	2800	17
	Biofilm											
	GC			X2			X4			X8		
0	1800000	950000	890000	1100000	960000	1400000	870000	1300000	1600000	1100000	1000000	890000
2	12000000	8200000	9200000	1500000	3200000	2800000	770000	670000	660000	1600000	890000	710000
4	95000000	4E+08	4E+08	82000000	66000000	91000000	12000000	22000000	9200000	620000	710000	630000
8	4E+08	4E+08	4E+08	4E+08	4E+08	4E+08	20000000	36000000	10000000	730000	410000	260000
24	4E+08	4E+08	4E+08	4E+08	4E+08	4E+08	17000000	62000000	11000000	52000	62000	87000

Supplementary figure 1 – Typical challenge plate

[illegible]