

Table S1. MIC and MBC of *S. aureus* strains from different ocular conditions to antibiotics.

Ocular condition	Strains	Ciprofloxacin ≤1, 2, ≥ 4* µg/ml		Ceftazidime ≤8, 16, ≥ 32 µg/ml		Oxacillin ≤ 2, ≥ 4 µg/ml		Gentamicin ≤4, 8, ≥16 µg/ml		Vancomycin ≤2, 4-8, ≥16 µg/ml		Chloramphenicol ≤8, 16, ≥ 32 µg/ml		Azithromycin ≤2, 4 ≥ 8 µg/ml		Polymyxin B ≤2, 4, ≥ 8	
		MIC	MBC	MIC	MBC	MIC	MBC	MBC	MB C	MIC	MBC	MIC	MBC	MIC	MBC	MIC	MBC
Microbial keratitis USA	106	128 (R)	256	128 (R)	256	8 (R)	16	1 (S)	2	0.5 (S)	1	8 (S)	16	16 (R)	32	40 (R)	16
	107	64 (R)	128	64 (R)	128	128 (R)	256	0.5 (S)	1	0.5 (S)	1	16 (S)	32	16 (R)	32	160 (R)	32
	108	1 (S)	2	64 (R)	128	32 (R)	32	1 (S)	2	0.5 (S)	1	8 (S)	16	8 (R)	16	4 (R)	8
	109	128(R)	256	128 (R)	256	128 (R)	256	1 (S)	2	0.5 (S)	1	8 (S)	16	16 (R)	32	4 (I)	8
	110	128(R)	256	64 (R)	128	128 (R)	256	0.5 (S)	1	0.5 (S)	1	8 (S)	16	128(R)	256	80 (R)	16
	111	1280 (R)	2560	32 (R)	64	128 (R)	256	8 (I)	16	2 (S)	2	32 (R)	64	128 (R)	256	80 (R)	16
	112	2560 (R)	5120	32 (R)	64	128 (R)	256	2 (S)	4	1 (S)	2	32 (R)	64	128 (R)	256	320 (R)	640
	113	1280 (R)	2560	32 (R)	64	32 (R)	64	1 (S)	2	1 (S)	1	32 (R)	64	320(R)	1280	4 (I)	8
	114	8 (R)	16	16 (I)	32	0.5 (S)	1	4 (S)	8	0.5 (S)	1	32 (R)	64	640 (R)	1280	8 (R)	16
Microbial keratitis AUS	34	1 (S)	2	64 (R)	64	1 (S)	1	1 (S)	2	1 (S)	1	8 (S)	16	16 (R)	32	128 (R)	256
	129	1 (S)	1	16 (I)	32	0.5 (S)	1	0.5 (S)	1	2 (S)	2	32 (R)	64	32 (R)	64	40 (R)	16
	M5-01	64 (R)	128	128 (R)	256	2 (S)	4	2 (S)	2	1 (S)	2	128 (R)	256	8 (R)	16	128 (R)	256
	M19-01	1 (S)	2	128(R)	256	0.5 (S)	1	2 (S)	2	1 (S)	2	2 (S)	4	16 (R)	32	128 (R)	256
	M27-01	1 (S)	2	128 (R)	256	0.5 (S)	1	2 (S)	4	1 (S)	2	128(R)	256	128(R)	256	128 (R)	256
	M28-01	1 (S)	2	320 (R)	640	0.5 (S)	1	0.5 (S)	1	1 (S)	2	16 (I)	32	320 (R)	640	128 (R)	256
	M 30-01	1 (S)	4	128(R)	256	1 (S)	2	1 (S)	2	1 (S)	2	64 (R)	128	8 (R)	16	128(R)	256
	M36-01	2 (I)	4	128(R)	256	2 (S)	2	2 (S)	2	1 (S)	2	64 (R)	128	128 (R)	256	128 (R)	256
	M43-01	128 (R)	256	128 (R)	256	4 (R)	8	2 (S)	4	1 (S)	2	16 (I)	32	8 (R)	16	64 (R)	256
	M49-02	2 (I)	8	128 (R)	256	2 (S)	4	4 (S)	4	1 (S)	2	128 (R)	256	16 (R)	32	128 (R)	128
	M65-02	1 (S)	4	128 (R)	256	0.5 (S)	1	4 (S)	4	1 (S)	2	64 (R)	64	8 (R)	16	128 (R)	256
	M71-01	4 (R)	16	128 (R)	256	1 (S)	1	1 (S)	2	1 (S)	2	128 (R)	256	128 (R)	256	128 (R)	256
	M90-01	2 (I)	4	64 (R)	128	0.5 (S)	1	1 (S)	2	1 (S)	2	128 (R)	256	128 (R)	256	128 (R)	256
	M91-01	1 (S)	2	128 (R)	256	1 (S)	2	2 (S)	4	2 (S)	2	128(R)	256	16 (R)	16	128 (R)	256
	84	16 (R)	32	64 (R)	128	8 (R)	16	1 (S)	1	0.5 (S)	1	8 (S)	16	32 (R)	32	8 (R)	256
	85	2 (I)	4	128(R)	256	1 (S)	2	0.5 (S)	0.5	0.5 (S)	1	2 (S)	8	4 (I)	8	4 (I)	64
	86	1 (S)	2	128 (R)	256	0.5 (S)	1	0.25(S)	0.5	0.5 (S)	1	32 (R)	64	128 (R)	256	2 (S)	16

Conjunctivitis USA	87	2 (I)	4	128 (R)	256	0.5 (S)	1	0.5 (S)	1	0.5 (S)	1	2 (S)	4	4 (I)	16	2 (S)	4
	88	8 (R)	16	128 (R)	256	1 (S)	2	0.25(S)	1	0.5 (S)	1	2 (S)	4	2 (S)	4	2 (S)	4
	89	1 (S)	2	128 (R)	256	0.5 (S)	1	0.5 (S)	1	1 (S)	2	2 (S)	8	8 (R)	16	8 (R)	32
	90	64 (R)	128	128 (R)	256	0.5 (S)	1	0.5 (S)	1	1 (S)	1	0.5 (S)	1	16 (R)	32	4 (I)	16
	91	1 (S)	2	128 (R)	256	0.5 (S)	1	0.25 (S)	0.5	0.5 (S)	1	1 (S)	2	4 (I)	16	8 (R)	16
	92	1 (S)	2	4 (S)	16	0.5 (S)	1	0.5 (S)	1	0.5 (S)	1	2 (S)	4	64 (R)	128	4 (I)	16
	93	4 (R)	16	128 (R)	256	1 (S)	2	0.25 (S)	0.5	0.5 (S)	1	2 (S)	4	2 (S)	4	4 (I)	16
	94	8 (R)	16	128 (R)	256	2 (S)	2	1 (S)	1	0.5 (S)	1	0.5 (S)	1	4 (I)	4	4 (I)	16
	95	16 (R)	32	64 (R)	32	0.5 (S)	1	0.25 (S)	0.5	0.5 (S)	1	1 (S)	2	32 (R)	64	4 (I)	16
	96	1 (S)	2	128 (R)	256	1 (S)	2	0.25 (S)	1	0.5 (S)	1	2 (S)	4	4 (I)	16	4 (I)	16
	97	0.25 (S)	0.5	0.5 (S)	1	0.5 (S)	1	0.25 (S)	0.5	0.5 (S)	1	0.5 (S)	1	2 (S)	8	4 (I)	16
	98	0.25 (S)	0.5	128 (R)	256	1 (S)	2	0.25 (S)	0.5	0.5 (S)	0.5	2 (S)	4	1 (S)	4	4 (I)	16
	99	4 (R)	8	128 (R)	256	0.5 (S)	1	0.25 (S)	0.5	0.5 (S)	1	2 (S)	4	4 (I)	16	0.5 (S)	1
	100	0.25 (S)	1	128 (R)	256	0.5 (S)	1	0.25 (S)	0.5	0.5 (S)	1	1 (S)	2	4 (I)	16	8 (R)	16
	101	128 (R)	256	128 (R)	256	64 (R)	128	0.25 (S)	0.5	0.5 (S)	1	2 (S)	2	64 (R)	128	4 (I)	8
	102	32 (R)	64	32 (R)	64	32 (R)	64	2 (S)	2	0.5 (S)	1	1 (S)	2	4 (I)	8	4 (I)	16
	103	32 (R)	64	128 (R)	256	8 (R)	16	0.25 (S)	1	0.5 (S)	0.5	4 (S)	8	32 (R)	64	4 (I)	8
	104	128(R)	256	64 (R)	128	128 (R)	256	0.5 (S)	1	0.5 (S)	1	0.5 (S)	1	64 (R)	128	4 (I)	8
	105	128 (R)	256	32 (R)	64	32 (R)	64	1 (S)	1	1 (S)	1	0.5 (S)	1	64 (R)	128	32 (R)	64
Conjunctivitis AUS	46	1 (S)	1	4 (S)	8	1 (S)	1	0.5 (S)	1	1 (S)	1	8 (S)	8	4 (I)	8	4 (I)	8
	136	4 (R)	16	16 (R)	32	2 (S)	2	1 (S)	1	0.25 (S)	1	16 (I)	32	8 (R)	32	16 (R)	64
	134	1 (S)	2	32 (R)	64	0.5 (S)	1	0.5 (S)	1	0.5 (S)	0.5	4 (S)	4	8 (R)	16	64 (R)	128
	140	1 (S)	2	64 (R)	128	0.5 (S)	1	0.5 (S)	1	0.5 (S)	1	8 (S)	16	16 (R)	32	128 (R)	16
Non-infectious CIE	12	4 (R)	16	64 (R)	128	1 (S)	2	2 (S)	2	1 (S)	1	8 (S)	16	16 (R)	32	4 (I)	8
	20	1 (S)	2	32 (R)	64	1 (S)	1	1 (S)	2	0.5 (S)	1	32 (R)	64	16 (R)	32	16 (R)	8
	24	0.25 (S)	1	64 (R)	64	0.25 (S)	1	1 (S)	1	0.25 (S)	1	2 (S)	8	4 (I)	16	64 (R)	64
	25	1 (S)	2	8 (S)	32	0.5 (S)	2	1 (S)	2	1 (S)	1	8 (S)	16	8 (R)	32	32 (R)	256
	27	1 (S)	2	64 (R)	128	8 (R)	16	1 (S)	2	1 (S)	2	2 (S)	8	8 (R)	16	64 (R)	16
	28	0.25 (S)	1	4 (S)	8	0.5 (S)	2	0.5 (S)	1	0.5 (S)	2	2 (S)	4	8 (R)	16	4 (I)	16
	32	1 (S)	2	2 (S)	4	0.5 (S)	1	2 (S)	2	0.5 (S)	1	4 (S)	8	2 (S)	4	4 (I)	16
	33	0.5 (S)	1	2 (S)	4	0.5 (S)	1	0.5 (S)	1	0.5 (S)	1	2 (S)	8	4 (I)	16	2 (S)	4
	48	1 (S)	2	16 (R)	32	1 (S)	2	0.5 (S)	1	0.5 (S)	1	16 (R)	32	4 (I)	16	128 (R)	256
	117	8 (R)	16	32 (R)	64	2 (S)	4	0.5 (S)	1	1 (S)	2	8 (S)	16	8 (R)	16	128 (R)	256

	26	0.5 (S)	1	64 (R)	128	0.25 (S)	0.5	0.5 (S)	1	0.5 (S)	0.5	2 (S)	2	64 (R)	128	8 (R)	16
	29	1 (S)	2	64 (R)	64	0.5 (S)	1	1 (S)	2	0.5 (S)	1	4 (S)	8	16 (R)	64	128 (R)	256
	31	4 (R)	16	16 (R)	32	1 (S)	2	0.5(S)	1	0.5 (S)	1	16 (I)	32	8 (R)	16	128 (R)	256
	41	4 (R)	8	64 (R)	128	1 (S)	2	1 (S)	1	1 (S)	2	2 (S)	4	64 (R)	64	4 (I)	8

*, break points for each antibiotic form CLSI and EUCAST. R= resistant, I = Intermediate, S= susceptible. Conj. = conjunctivitis, MK = microbial keratitis, niCIE = non-infectious corneal infiltrative events. Grey shade indicates resistance.