

Table S1. Distribution of false positives and negatives in MSSA with CzIE.

Discrepancies	Allotype	BlaZ Type	No of isolates (%)	Cefazolin MIC at HI (µg/mL) (No of isolates)							Clonal Complexes CC (No of isolates)	
				128	64	32	16	8	4	2		1
False Negative n=45	BlaZ-1	C	24 (53)	5	3	2	<u>14</u>					CC5 (7), CC8 (5), CC1 (5), CC15 (4), CC45 (1) ND (2)
	BlaZ-4	A	9 (20)			1	<u>8</u>					CC45 (4), CC8 (3), CC5(1), ND (1)
	BlaZ-3	B	5 (11)	<u>4</u>			1					ND (3), CC8(2)
	BlaZ-6	C	3 (7)	<u>2</u>		1						CC30 (1), CC1 (1), ND (1)
	BlaZ-2	A	1 (2)		<u>1</u>							CC30 (1)
	BlaZ-5	B	1 (2)	<u>1</u>								CC5 (1)
	BlaZ-8	B	1 (2)	<u>1</u>								CC8 (1)
	BlaZ-23	C	1 (2)			<u>1</u>						CC15 (1)
	TOTAL		45 (100)	13	4	5	23					CC8 (11), CC5 (9), CC1 (6), CC15 (5), CC45 (5), ND (9)
False Positive (n=48)	BlaZ-1	C	16 (33)					7	<u>7</u>	2		CC1 (8), C5 (4), CC30 (1), CC15 (1), CC8 (1), ND (1)
	BlaZ-5	B	15 (31)						5	<u>7</u>	3	CC5 (9), C97 (4), CC1 (1), CC45 (1)
	BlaZ-3	C	8 (17)							1	<u>7</u>	CC8 (4), ND (4)
	BlaZ 2	A	2 (4)					1		<u>1</u>		CC30 (1), ND (1)
	BlaZ-4	A	2 (4)						2			CC8 (2)
	BlaZ-6	C	1 (2)						1			CC1 (1)
	BlaZ-9	B	1 (2)								1	CC1 (1)
	BlaZ-13	C	1 (2)					1				ND (1)
	BlaZ-28	A	1 (2)								1	CC30 (1)
	BlaZ-0	A	1 (2)						1			CC8 (1)
	TOTAL		48 (100)					9	16	11	12	C5 (13), CC1 (11), CC8 (8), CC97 (4) CC30 (3), CC15 (1), CC45 (1), ND (7)

ND: Not defined. MIC₉₀ Bold, MIC₅₀ Underlined.