

Strains	Amino acid change	Oxacillin MIC (µg/ml)	RMP ^R mutants	
			Rifampicin 5 µg/ml	Rifampicin 100 µg/ml
SJF682			4.5±2.06×10 ⁻⁸	1.10±0.80×10 ⁻⁸
SJF4996			3.34±0.45×10 ⁻⁸	1.03±0.58×10 ⁻⁸
SJF5003	<i>rpoB</i> -H929Q	≥256	1.86±1.07×10 ⁻⁹	1.72±1.25×10 ⁻⁹
SJF5034	<i>rpoC</i> -G740R	≥256	5.23±2.66×10 ⁻¹⁰	1.76±0.82×10 ⁻¹⁰
SJF4999	<i>rpoB</i> -G1139D	16	1.20±0.10×10 ⁻⁹	<5×10 ⁻¹¹
SJF5008	<i>rpoB</i> -G639C, D949H	≥256	4.07±2.7×10 ⁻¹⁰	1.43±0.06×10 ⁻¹⁰
SJF5031	<i>rpoB</i> -Q643P	≥256	1.01±1.85×10 ⁻¹⁰	<5×10 ⁻¹¹
SJF5000	<i>rpoC</i> -R739S	≥256	5.67±2.31×10 ⁻⁸	3.57±1.10×10 ⁻⁸
SJF5001	<i>rpoC</i> -I1084F	16	3.90±1.64×10 ⁻⁹	3.00±1.80×10 ⁻⁹
SJF5002	<i>rpoC</i> -S852Y	16	4.03±0.91×10 ⁻⁹	1.18±0.37×10 ⁻⁹
SJF5005	<i>rpoC</i> -E933Q	≥256	2.97±0.95×10 ⁻⁹	2.4±0.45×10 ⁻⁹
SJF5006	<i>rpoC</i> -A738T	≥256	1.01±0.18×10 ⁻⁸	1.53±0.68×10 ⁻⁸
SJF5007	<i>rpoC</i> -G950R	≥256	2.00±0.30×10 ⁻⁹	2.10±1.15×10 ⁻⁹

S5 Table: Mutations frequencies for rifampicin resistance in *S. aureus* strains.

Frequencies of rifampicin-resistant colonies for strains carrying *rpoBC* mutations were determined from plates spread with 10⁹ to 10¹¹ viable cells supplemented with 5 and 100 µg/ml rifampicin. Frequency of RMP^R mutants expressed as average (±SD) number of RMP^R colonies from three independent experiments. <5×10⁻¹¹ corresponds to no colonies detected.