

Figure S1. Indocyanine green (ICG)-photodynamic inactivation (25 $\mu\text{g}/\text{mL}$ ICG, near-infrared (NIR) 100 J/cm^2 at 65.5 mW/cm^2) of three clinical Methicillin-resistant *Staphylococcus aureus* (MRSA) strains evaluated with disk-diffusion assay. Bacteria counts in CFU/mL of **(A)** MRSA/JD004, **(B)** MRSA/BAA-1556, and **(C)** MRSA/39452 were calculated by serial dilution and bacterial drop-plate count methods. An agar plate was allocated into four quadrants. Each quadrant was reserved for one dilution in the 10-fold serial dilutions. Each quadrant contained three drops of 20 μL bacterial suspension. **(D)** Average data were pooled from three independent experiments with triplicated samples. ** $p < 0.01$, and *** $p < 0.001$ in comparison with the absolute control group. Each bar was the mean of three determinations \pm standard deviation. C: absolute control; DC: dark control; LC: light control; PDT: photodynamic therapy.

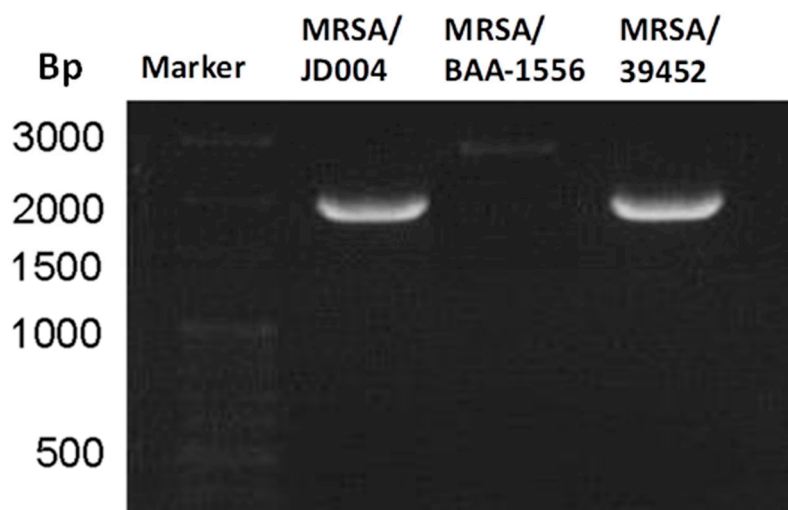


Figure S2. *Mec* complex typing of three MRSA clinical isolates. MRSA/JD004, MRSA/BAA-1556, and MRSA/39452 were isolated from patients' wounds. *Mec* genes were typed according to Kondo et al., using the multiplex PCR method. MRSA/JD004 and MRSA/39452 belonged to Class A and MRSA/BAA-1556 belonged to Class B.

Table 1. Breakpoints of MRSA inhibition-zone diameters and minimum-inhibitory-concentration (MIC) values according to the CLSI criteria.

Antibiotics	Disk content	Zone diameter (mm)		MIC value ($\mu\text{g/ml}$)	
		Resistant	Sensitive	Resistant	Sensitive
Oxacillin (OX)	1 μg	≤ 10	≥ 13	≥ 4	≤ 2
Cefoxitin (FOX)	30 μg	≤ 21	≥ 22	≥ 8	≤ 4

Table 2. The PCR primers used in this study.

Genes	Primers	Amplification size (bp)	References
<i>mecA</i>	5' ATGAAAAAGATAAAAATTGTTCCAC 3'	2007	
	5' TTATTCATCTATATCGTATTTTTTATT 3'		
<i>mecR1</i>	5' TGGTATTTGGTTTAGTGAA 3'	414	[46]
	5' GATTAGGTTTAGGCATTGA 3'		
<i>mecI</i>	5' AATGGCGAAAAAGCACAACA 3'	480	[46]
	5' GACTTGATTGTTTCCTCTGTT 3'		
IS1272	5'- GTGATTCTATATGCCTACACACAA TC -3'	1512	
	5'- AGCAATAAAAAAATAAATCATAATGAGTCC -3'		

Genes	Primers	Amplification size (bp)	References
<i>IS431</i>	5'-ATGAACTATT TCAGATATAAACAATTTAACA -3'	674	
	5'- TTAAGTTGCTAGCATGATGCTA -3'		
<i>16s rRNA</i>	5'-GTTATTAGGGAAGAACATATGTG-3' 5'-CCACCTTCCTCCGGTTTGTCCACC-3'	750	[47]