

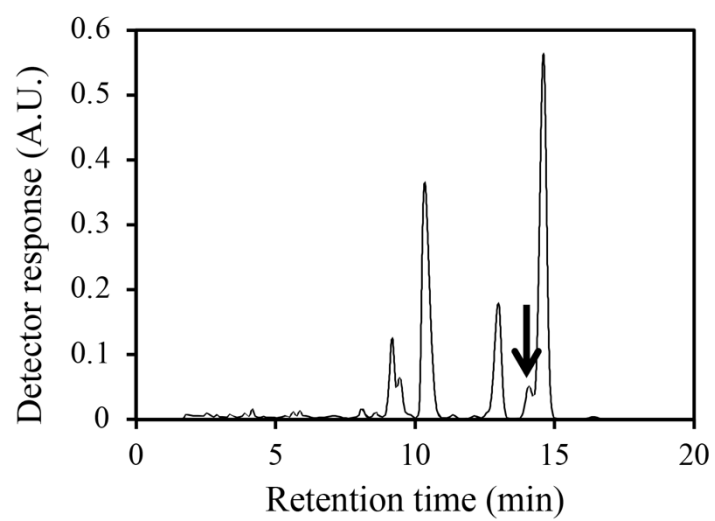
Supplementary Material Figure S1. Changes in the cell growth of two methicillin-resistant *Staphylococcus aureus* strains, CCARM 3820 (□) and CCARM 3879 (■), after a 24 h treatment with 512 mg/L each of 392 methanolic plant extracts and 4 mg/L of oxacillin (1/8 MIC).

Supplementary Material Table S1. Methanolic extracts that inhibited the growth of the methicillin-resistant *Staphylococcus aureus* (MRSA) strains MRSA CCARM 3820 and MRSA CCARM 3879 by more than 80% when incubated at 512 mg/L with oxacillin (1/8 MIC, 4 mg/L) for 24 h.

Extract	MRSA CCARM 3820	MRSA CCARM 3879
	Relative cell growth (%)	Relative cell growth (%)
Alpiniae Oxyphyllae Fructus	-94.59	-96.49
Araliae Continentalis Radix	-85.90	-80.41
Cannabis Fructus	-90.52	-91.42
Cinnamomi Cortex	-96.34	-99.65
Corydalis Tuber	-89.08	-85.00
Crassirhizomae Rhizoma	-97.03	-97.77
Fruit of <i>Myrciaria dubia</i>	-93.05	-97.51
Impatiens Semen	-93.09	-92.66
Kaempferiae Rhizoma	-96.03	-95.34
Leaf of <i>Origanum vulgare</i>	-95.01	-99.77
Leaf of <i>Pinus densiflora</i>	-100	-100
Leaf of <i>Rosmarinus officinalis</i> .	-94.45	-92.99
Leaf of <i>Salvia officinalis</i>	-95.69	-95.12
Leaf of <i>Silybum marianum</i>	-88.49	-88.13
Lepidii seu Descurainiae Semen	-90.55	-84.88
Linderæ Radix	-95.50	-100
Magnoliae Cortex	-89.51	-87.91
Mori Cortex Radicis	-97.88	-97.56
Ocimi Herba	-89.37	-92.95
Osterici Radix	-89.97	-88.87
Perillae Japonicae Semen	-95.38	-95.34
Perilliae Semen	-89.96	-82.91
Piperis Nigri Fructus	-96.15	-100
Psoraleae Semen	-92.81	-94.30
Pulvis Myristicae Seminis	-98.41	-85.87
Ricini Semen	-100	-100
Saposhnikoviae Radix	-89.85	-98.13
Sappan Lignum	-92.42	-87.78
Siegesbeckiae Herba	-84.60	-94.78
Sophorae Radix	-97.47	-97.80
Syzygii Flos	-96.57	-99.49
Terminaliae Fructus	-92.69	-86.12
Thujae Semen	-80.15	-89.08
Xanthii Fructus	-94.40	-91.37
Zedoariae Rhizoma	-94.14	-93.79

Supplementary Material Table S2. Changes in the cell density of methicillin-resistant *Staphylococcus aureus* (MRSA) strains MRSA CCARM 3820 and MRSA CCARM 3879 after incubation with oxacillin (1/8 MIC, 4 mg/L) and five selected ethanolic extracts (512 mg/L) for 24 h.

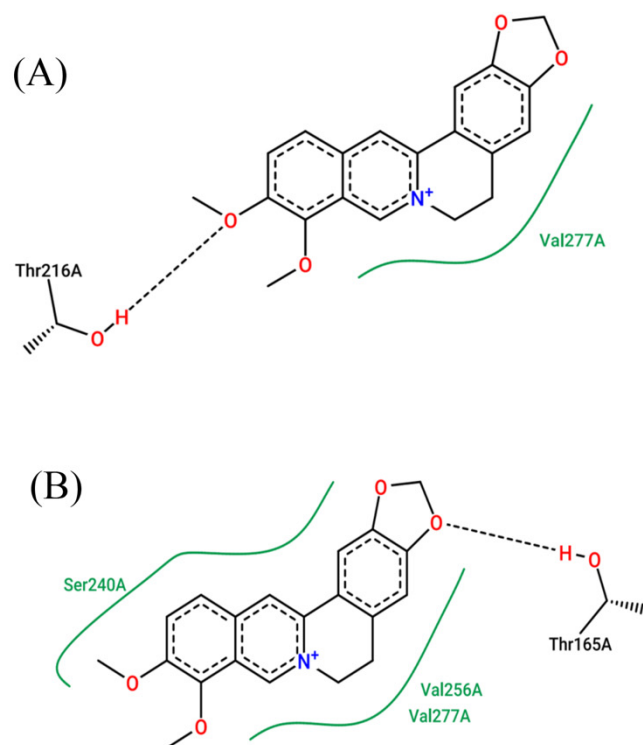
Extract	MRSA CCARM 3820	MRSA CCARM 3879
	Relative cell growth (%)	Relative cell growth (%)
Alpiniae Oxyphyllae Fructus	-34.02	-76.44
Corydalis Tuber	-94.25	-96.83
Lepidii seu Descurainiae Semen	-30.30	-29.78
Linderae Radix	-96.25	-95.03
Thujae Semen	-57.06	-96.53



Supplementary Material Figure S2. High-performance liquid chromatography chromatogram of the Corydalis Tuber ethanol extract. The arrow indicates the retention time of berberine.

Supplementary Material Table S3. Simulated molecular docking binding affinities of eight alkaloid compounds known to be in *Corydalis* Tuber extract to the four efflux pump proteins of *Staphylococcus aureus*.

Name	MepA (kcal/mol)	NorA (kcal/mol)	NorB (kcal/mol)	SdrM (kcal/mol)
Allocryptopin	-6.4	-6.7	-6.4	-6.4
Berberine	-7.9	-7.6	-7.8	-9.4
Coptisine	-7.1	-7.8	-7.1	-7.0
Corydaline	-5.7	-6.1	-5.8	-5.9
Dehydrocorydaline	-6.1	-6.4	-6.0	-6.4
Palmatine	-6.2	-7.0	-5.4	-5.7
Protopine	-6.9	-7.1	-6.8	-7.4
Tetrahydropalmatine	-6.0	-6.1	-6.2	-5.9



Supplementary Material Figure S3. Molecular docking analysis with berberine and the PBP2A protein of *Staphylococcus aureus* ATCC 33593 (A) and *S. aureus* Mu50 (B; PDB code: 4CJN). The curved green lines indicate hydrophobic interactions and the black dotted line shows hydrogen bonds.

33593	1	MKKIKIVPLI	LIVVVVGFGI	YFYASKDKEI	NNTIDAIEDK	NFKQVYKDSS	YISKSDNGEV
Mu50	1	MKKIKIVPLI	LIVVVVGFGI	YFYASKDKEI	NNTIDAIEDK	NFKQVYKDSS	YISKSDNGEV
33593	61	EMTERPIKIY	NSLGVKDINI	QDRKIKKVSK	NKKRVDAQYK	IKTNYGNIDR	NVQFNFKVED
Mu50	61	EMTERPIKIY	NSLGVKDINI	QDRKIKKVSK	NKKRVDAQYK	IKTNYGNIDR	NVQFNFKVED
33593	121	GMWKLDWDHS	VIIPGMQKDQ	SIHIENLKSE	RGKILDRNNV	ELANTGTAYE	IGIVPKNVSK
Mu50	121	GMWKLDWDHS	VIIPGMQKDQ	SIHIENLKSE	RGKILDRNNV	ELANTGTAYE	IGIVPKNVSK
				*			
33593	181	KDYKAIAKEL	SISEDYIKQQ	MDQKQVQDDT	FVPLKTVKKM	DEYLSDFAKK	FHLTNETES
Mu50	181	KDYKAIAKEL	SISEDYIKQQ	MDQNWVQDDT	FVPLKTVKKM	DEYLSDFAKK	FHLTNETES
				*			
33593	241	RNYPL E KATS	HLLGYVGPIN	SEELKQKEYK	GYKDDAVIGK	KGLEKLYDKK	LQHEDGYRVT
Mu50	241	RNYPL G KATS	HLLGYVGPIN	SEELKQKEYK	GYKDDAVIGK	KGLEKLYDKK	LQHEDGYRVT
33593	301	IVDDNSNTIA	HTLIEKKKKD	GKDIQLTIDA	KVQKSIYNNM	KNDYGSSTAI	HPQTGELLAL
Mu50	301	IVDDNSNTIA	HTLIEKKKKD	GKDIQLTIDA	KVQKSIYNNM	KNDYGSSTAI	HPQTGELLAL
33593	361	VSTPSYDVYP	FMYGMSNEEY	NKLTEDKKEP	LLNKFQITTS	PGSTQKILTA	MIGLNNKTLD
Mu50	361	VSTPSYDVYP	FMYGMSNEEY	NKLTEDKKEP	LLNKFQITTS	PGSTQKILTA	MIGLNNKTLD
33593	421	DKTSYKIDGK	GWQKDKSWG	YNVTRYEVVN	GNIDLKQAIE	SSDNIFFARV	ALELGSKKFE
Mu50	421	DKTSYKIDGK	GWQKDKSWG	YNVTRYEVVN	GNIDLKQAIE	SSDNIFFARV	ALELGSKKFE
33593	481	KGMKKLGVGE	DIPSDYPFYN	AQISNKNLDN	EILLADSGYG	QGEILINPVQ	ILSIYSALEN
Mu50	481	KGMKKLGVGE	DIPSDYPFYN	AQISNKNLDN	EILLADSGYG	QGEILINPVQ	ILSIYSALEN
33593	541	NGNINAPHL	KDTKNKVWKK	NIISKENINL	LTDGMQQVVN	KTHKEDIYRS	YANLIGKSGT
Mu50	541	NGNINAPHL	KDTKNKVWKK	NIISKENINL	LTDGMQQVVN	KTHKEDIYRS	YANLIGKSGT
33593	601	AELKMKQGET	GRQIGWFISY	DKDNPNMMA	INVKDVQDKG	MASYNKISG	KVYDELYENG
Mu50	601	AELKMKQGET	GRQIGWFISY	DKDNPNMMA	INVKDVQDKG	MASYNKISG	KVYDELYENG
33593	661	NKKYDIDE					
Mu50	661	NKKYDIDE					

Supplementary Material Figure S4. The PBP2A protein amino acid sequences of *Staphylococcus aureus* ATCC 33593 and *S. aureus* Mu50. An asterisk indicates the presence of different amino acids at that position.