Methanol Extracts from *Manilkara zapota* with Moderate Antibacterial Activity Displayed Strong Antibiotic-Modulating Effects against Multidrug-Resistant Phenotypes

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**Table S1.** Gram-negative bacteria and their features

|  |  |  |
| --- | --- | --- |
| **Strains** | **Features** | **References** |
| ***Escherichia coli*** |  |  |
| ATTC 8739 and  ATCC10536 | Reference strain |  |
| AG 100 | Wild-type *E. coli* K-12 expressing *Acr AB* efflux pumps | [1] |
| AG 100ATet | ΔacrAB mutant AG 100A Tetr | [1] |
| AG 102 | AG 100 expressing *Acr AB* pumps | [2] |
| W 3110 | Wild-type E.*coli* K-12 | [3] |
| MC4100 | Wild-type E. coli K-12, KANR expressing *ABC* pump | [3] |
| ***Enterobacter aerogenes*** |  |  |
| ATCC 13048 | Reference strain |  |
| EA3 | Clinical MDR isolate CHLR, NORR,  MOXR, CFTR, ATMR, FEPR | [4] |
| EA 27 | Clinical MDR isolate exhibiting  energy-dependent norfloxacin and  chloramphenicol efflux with KANR and  AMPR and NALR and STRR and TETR | [5, 6] |
| EA 289 | KAN sensitive derivative of EA27 | [4] |
| EA294 | EA289 expressing *AcrA* pump having KANr | [4, 7] |
| EA 298 | EA 289 tolC:KANR | [4, 7] |
| ***Klebsiella pneumoniae*** |  |  |
| ATCC11296 | Reference strain |  |
| K 24 | Clinical MDR isolate *AcrAB-Tolc* | Clinical laboratory collection of UMR-MD1, University of Marseille, France |
| Kp 55 | Clinical MDR isolate, TETR, AMPR, ATMR, and CEFR | [8] |
| Kp 63 | Clinical MDR isolate, TETR, CHLR, AMPR, and ATMR | [8] |
| ***E. Cloacae*** |  |  |
| ECCI69 | Clinical isolates | Laboratory collection of UNR-MD1, University of Marseille, France |
| ***Providencia stuartii*** |  |  |
| NEA 16 | Clinical MDR isolate, *AcrAB-TolC* | [9] |
| PS2636 | Clinical MDR isolate, *AcrAB-TolC* |
| ***Pseudomonas aeruginosa*** |  |  |
| PA 01 | Reference strain |  |
| PA 124 | Clinical MDR isolate | [10] |

aAMPR, ATMR, CEFR, CFTR, CHLR,CIPR, ERMR, FEPR, FLXR, IM/CSR, KANR, MOXR, OFXR, STRR, TETR, Resistancetoampicillin, aztreonam, cephalothin, cefadroxil, chloramphenicol, Ciprofloxacin, Erythromycin, cefepime,Flomoxef, Imipenem/ Cilastatinsodium, kanamycin, moxalactam, streptomycin, andtetracycline; MDR : Multidrugresistant.

**Table S1.** *Staphylococcus aureus* strains and features.

|  |  |  |
| --- | --- | --- |
| **Bacteria** | **Features** | **References** |
| *S. aureus MSSA1* | Clinical isolate : Met susceptible ; Nis**r**, Chl**r** | [11, 12] |
| *S. aureus MRSA3* | Clinical isolate : Ofxa**r**, Kan**r**, Tet**r**, Ermr | [12] |
| *S. aureus MRSA4* | Clinical isolate : Ofxa**r**, Kan**r**, Cyp**r,** Chl**r**, Gen**r,** Nis**r,** Amp**r** | [11, 12] |
| *S. aureus MRSA6* | Clinical isolate : Ofxa**r**, Flx**r**, Kan**r**, Tet**r**, Cyp**r**, IM/Cs**r,** Chl**r**, Gen**r,** Nis**r,** Amp**r** | [11, 12] |
| *S. aureus MRSA8* | Clinical isolate : Ofxa**r**, Flx**r**, Kan**r**, Erm**r**, Cyp**r**, Im/Cs**r,** Chl**r**, Gen**r,** Nis**r,** Amp**r** | [11, 12] |
| *S. aureus MRSA9* | Clinical isolate : Ofxa**r**, Flx**r**, Tet**r**, Erm**r**, Cyp**r**, Im/Cs**r,** Chl**r**, Gen**r,** Nis**r,** Amp**r** | [11, 12] |
| *S. aureus MRSA11* | Clinical isolate : Ofxa**r**, Kan**r**, Erm**r**, Cyp**r**, Im/Cs**r,** Chl**r**, Nis**r,** Amp**r** | [11, 12] |
| *S. aureus MRSA12* | Clinical isolate : Ofxa**r**, Flx**r**, Kan**r**, Erm**r**, Im/Cs**r,** Chl**r**, Gen**r,** Nis**r,** Amp**r** | [11, 12] |
| *ATCC 25923* | Reference strain | / |
| *SA01* | Clinical isolate : Erm**r,** Amp**r** | [13, 14] |
| *SA07* | Clinical isolate : Erm**r,** Dox**r** | [13, 14] |
| *SA18* | Clinical isolate : Amp**r,** Dox**r,** Vm**r** | [13, 14] |
| *SA23* | Clinical isolate : Imi**r**, Aug**r** | [13, 14] |
| *SA36* | Clinical isolate : Dox**r,** Vm**r** | [13, 14] |
| *SA56* | Clinical isolate : Amp**r,** Dox**r** | [13, 14] |
| *SA68* | Clinical isolate : Amp**r,** Vm**r** | [13, 14] |
| *SA88* | Clinical isolate : Erm**r,** Vm**r** | [13, 14] |
| *SA114* | Clinical isolate : Amp**r,** Dox**r** | [13, 14] |
| *SA126* | Clinical isolate : Amp**r,** Dox**r** | [13, 14] |
| *SA127* | Clinical isolate : Amp**r,** Dox**r** | [13, 14] |

Chl**r**, Cyp**r**, Erm**r**, Flx**r**, Im/Cs**r**, Kan**r**, Met**r**, Ofxa**r**, Tet**r**, Vm**r**, Amp**r**, Dox**r**, Aug**r**, Gen**r** and Nis**r** résistance to : chloramphenicol; Cyprofloxacin; Erythromycin; Flomoxef; Imipenem/Cilastatin sodium; Kanamycin; Méthicillin; Ofloxacin; Tetracycline; Vancomycin ; Ampicillin ; Doxycycline ; Augmentin ; Gentamicin ; Nisin respectively, *SA : Staphycoccus aureus.*

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