Supplementary table 1: List of primers used for the PCR amplification and Sequencing

|  |  |  |  |
| --- | --- | --- | --- |
| **S.no** | **Primers** | **Sequence** | **Size** |
| 1 | gyrB-F | 5′-GCTCAAGGGCAAGATCCTCA-3′ | 332 bp |
| gyrB-R | 5′-TGTACTCTTCCATGGCCTGGTC-3′ |  |
| 2 | NfxB-F | 5′-GCCTGATCAAGGAACACCTC-3′ | 288 bp |
| NfxB-R | 5′-GGAACATCTGCTCCAGGGTA-3′ |
| 3 | mexR-F | 5'-CTGGATCAACCACATTTACA -3' | 503 bp |
| mexR-R | 5’-CTTCGAAAAGAATGTTCTTAAA-3’ |
| 4 | parC-F | 5'- CATCGTCTACGCCATGAG-3' | 267 bp |
| parC-R | 5'-AGCAGCACCTCGGAATAG-3' |
| 5 | *gyrA*-F | 5'-GTGTGCTTTATGCCATGAG-3' | 287 bp |
| gyrA-R | 5’-GGTTTCCTTTTCCAGGTC-3' |
| 6 | NDM-F | 5'-GGTTTGGCGATCTGGTTTTC-3' | 621 bp |
|  | NDM-R | 5'- CGGAATGGCTCATCACGATC -3' |
| 7 | INT1F | 5'-GGTGTGGCGGGCTTCGTG-3' | 475 bp |
|  | INT1R | 5'-GCATCCTCGGTTTTCTGG-3' |
| 8 | InCS5’ | 5’-GGCATCCAAGCAGCAAG-3’ | variable |
|  | InCS3’ | 5’- AAGCAGACTTGACCTGA-3’ |
| 8 | MexB-F | 5'-CCTGCTGATCTACGTGGTGA-3' | 409bp |
|  | MexB-R | 5'-GGCGTTACCCAGTTCCAGTA-3' |
| 9 | MexF-F | 5'-TGTACGCGAACGACTTCAAC-3' | 500bp |
|  | MexF-R | 5'-CTTCCTCCTGCTTGTCCTTG-3' |

bp, base pair.

Supplementary table 2: PCR conditions used for the amplification of *P. aeruginosa* genes

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Primer** | **Initial Denaturation** | **Dentauration2** | **Annealing** | **Extension** | **Final extension** | **Cycles** |
| gyrB, parC, mexB | 95ºC - 5mins | 95 ºC - 30secs | 58 ºC - 1min | 72 ºC - 1 min | 72 ºC -10mins | 40 |
| NfxB | 95ºC - 5mins | 95 ºC - 1min | 54 ºC - 1min | 72 ºC - 1min | 72 ºC -10mins | 40 |
| mexR, gyrA | 95ºC - 5mins | 95 ºC - 30secs | 55 ºC - 45secs | 72 ºC - 1min | 72 ºC -10mins | 40 |
| NDM | 95ºC - 5mins | 95 ºC - 30secs | 54 ºC - 1min | 72 ºC - 1min | 72 ºC -10mins | 40 |
| INT1 | 95ºC - 5mins | 94 ºC - 1min | 62 ºC - 1min | 72 ºC -1min | 72 ºC -7mins | 35 |
| 5’-3’InCS | 95ºC - 5mins | 95 ºC - 30secs | 67 ºC - 54ºC (touch down) – 30 secs per annealing temp. | 72 ºC -30secs | 72 ºC -10mins | 69 - 55 ºC - 2 cycles,  54 ºC - 20 cycles |
| mexF | 95ºC - 5mins | 95 ºC - 30secs | 69 ºC - 58 ºC (touch down) – 30 secs per annealing temp. | 72 ºC -30secs | 72 ºC -10mins | 69-57 ºC - 2 cycles,  58 ºC - 20 cycles |

Supplementary table 3. Interpretation of biofilm results based on the average OD value

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Average OD value** | **Biofilm production** | **Mean**  **OD value** | **Adherence** | **Biofilm formation** | **No. of isolates** |
| OD ≤ODc | Non-adherent | < 0.556 | Non | Non | 0 |
| ODc<OD≤ 2xODc | Weakly adherent | 0.556 - 1.112 | Weak | Weak | 0 |
| 2xODc<OD≤4xODc | Moderately adherent | 1.112 - 2.224 | Moderate | Moderate | 0 |
| 4xODc<OD | Strongly adherent | >2.224 | Strong | Strong | 14 |

Reference:Perez, L.R.R. et al.

Supplementary table 4: Minimum inhibitory concentration (MIC) and Minimum Biofilm inhibitory concentration (MBIC) of nosocomial and tap water isolates of *P. aeruginosa*

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Strain No.** | **Source** | **Average Biofilm OD** | **Levofloxacin** | | **Imipenem** | | **Piperacillin-tazobactum** | | **Ceftazidime** | | **Phenotype** |
| **MBIC** | **MIC** | **MBIC** | **MIC** | **MBIC** | **MIC** | **MBIC** | **MIC** |
| 199 | Urology | 3.19±0.01 | 512 | 32 | 512 | 128 | 512 | 256 | 512 | 128 | XDR |
| 200 | Urology | 3.36±0.03 | 512 | 64 | 512 | 128 | 512 | 256 | 512 | 128 | XDR |
| 208 | Urology | 4.8±0.21 | 1024 | 32 | 1024 | 64 | 1024 | 256 | 1024 | 256 | PDR |
| 217 | Urology | 3.26±0.21 | 512 | 64 | 256 | 64 | 512 | 256 | 512 | 128 | XDR |
| 225 | Urology | 4.91±0.26 | 1024 | 64 | 512 | 64 | 1024 | 256 | 1024 | 128 | XDR |
| 227 | CTVS | 3.63±0.05 | 512 | 64 | 128 | 8 | 512 | 128 | 512 | 256 | XDR |
| 236 | CTVS | 2.46±0.34 | 128 | 32 | 16 | 2 | 256 | 64 | 512 | 256 | MDR |
| 237 | CTVS | 2.99±0.11 | 512 | 32 | 32 | 2 | 128 | 32 | 256 | 128 | MDR |
| 239 | Urology | 4.83±0.11 | 1024 | 32 | 1024 | 128 | 1024 | 256 | 1024 | 256 | XDR |
| 241 | CTVS | 2.35±0.04 | 1024 | 32 | 64 | 2 | 128 | 32 | 1024 | 128 | MDR |
| 251 | Urology | 4.92±0.04 | 1024 | 64 | 1024 | 128 | 1024 | 256 | 1024 | 128 | MDR |
| 255 | Urology | 4.6±0.06 | 1024 | 64 | 512 | 128 | 1024 | 256 | 1024 | 128 | MDR |
| T3 | CTVS | 3.16±0.12 | 1024 | 8 | 512 | 128 | 128 | 16 | 512 | 64 | MDR |
| T4 | CTVS | 3.15±0.10 | 1024 | 8 | 512 | 128 | 256 | 128 | 512 | 64 | MDR |