**Table 1**.

The zones of inhibition (mm) of the materials with antibiotics against bacterial and fungi strains (MICa in µg/mL) a MIC: Minimal inhibitory concentration values with SEM= 0.02, b ( - ): Totally inactive (no inhibition)

|  |  |  |
| --- | --- | --- |
| **Compounds** | Doses µg/mL | **Bacteria** |
| Gram-positive bacteria | Gram-negative bacteria |
| *B.subtilis* | *S. aureus* | *B.megaterium* | *E.aerogenes* | *E.coli* | *P.aeruginosa* | *K.Pneumonia* |
| **1** | 5 | 12a | -b | - | - | - | - | 15 |
| 10 | 13 | - | - | - | 12 | 14 | 15 |
| 20 | 14 | - | 13 | 13 | 16 | 17 | 16 |
| **2** | 5 | 10 | 12 | 12 | 12 | 12 | 12 | 12 |
| 10 | 10 | - | - | 12 | 12 | 12 | 12 |
| 20 | 12 | - | 10 | 14 | 16 | 16 | 16 |
| **3a** | 5 | - | - | - | - | 10 | - | 10 |
| 10 | 14 | 14 | 15 | 12 | 16 | 12 | 15 |
| 20 | 19 | 20 | 16 | 19 | 20 | 21 | 19 |
| **3b** | 5 | 11 | 12 | 11 | 10 | 12 | 10 | 10 |
| 10 | 13 | 12 | 15 | 14 | 15 | 12 | 14 |
| 20 | 16 | 22 | 18 | 18 | 16 | 20 | 18 |
| **3c** | 5 | 12 | - | - | 12 | 12 | - | - |
| 10 | 15 | 11 | 11 | 16 | 15 | 12 | 11 |
| 20 | 16 | 17 | 17 | 18 | 18 | 19 | 15 |
| **5** | 5 | - | - | - | - | 11 | - | 13 |
| 10 | 12 | 12 | 12 | 14 | 13 | - | 15 |
| 20 | 16 | 17 | 16 | 16 | 17 | 18 | 16 |
| **6a** | 5 | 14 | - | 13 | - | 13 | 13 | 12 |
| 10 | 16 | 15 | 16 | 12 | 15 | 18 | 16 |
| 20 | 18 | 18 | 19 | 19 | 18 | 20 | 18 |
| **6b** | 5 | 12 | 12 | - | 12 | - | - | 12 |
| 10 | 15 | 14 | 15 | 15 | 17 | 13 | 14 |
| 20 | 18 | 18 | 18 | 20 | 18 | 17 | 19 |
| **6c** | 5 | 13 | - | 12 | - | 14 | 13 | - |
| 10 | 14 | 13 | 13 | 13 | 14 | 13 | 14 |
| 20 | 15 | 15 | 15 | 15 | 15 | 14 | 16 |
| **Positive Controls** |
| Erythromycin | 15 | 20 | 21 | 25 | 27 | 19 | 19 | 19 |
| Amikacin | 30 | 14 | 10 | - | 10 | 13 | - | 16 |
| Penicillin | 30 | 21 | 18 | 16 | 16 | 18 | 8 | 19 |
| Ampicillin | 10 | 9 | - | 10 | - | - | - | 10 |
| Rifampicin | 5 | 9 | - | 10 | - | - | - | 10 |

**Table 2**.

Some theoretical parameters for synthesized molecules

|  |  |  |  |
| --- | --- | --- | --- |
| **Compound** | PSA (Ao2) | CMR (cm3/mol) | CLogP |
| **1** | 69.97 | 116.47 | 5.03 |
| **2** | 49.74 | 120.33 | 6.31 |
| **3a** | 82 | 153.7 | 6.67 |
| **3b** | 82 | 142.90 | 6.14 |
| **3c** | 82 | 138.43 | 5.77 |
| **5** | 62 | 129.83 | 6.90 |
| **6a** | 94 | 170 | 6.83 |
| **6b** | 94 | 159 | 6.38 |
| **6c** | 94 | 154 | 6.02 |