**Tables 7.1: Antibacterial activity of [GdCuL1(bpy)2(NO3)2] complex**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Microorganisam** | **25** | **50** | **75** | **100** | **125** |
| *Klebsiella* | 0.66 ± 0.11 | 0.71 ± 0.11 | 0.70 ± 0.11 | 0.80 ± 0.10 | 0.80 ± 1.00 |
| *S.typhi* | 0.00 ± 0.00 | 0.00 ± 0.00 | 0.00 ± 0.00 | 0.00 ± 0.00 | 0.91 ± 0.00 |
| *C.albicans* | 0.00 ± 0.00 | 0.00 ± 0.00 | 0.00 ± 0.00 | 0.00 ± 0.00 | 0.67 ± 0.11 |
| *S.typhiParaA* | 0.00 ± 0.00 | 0.00 ± 0.00 | 0.00 ± 0.00 | 0.00 ± 0.00 | 0.67 ± 0.11 |
| *P.aeruginosa* | 0.67 ± 0.11 | 0.71 ± 0.11 | 0.71 ± 0.11 | 0.80 ± 0.10 | 0.80 ± 1.00 |

**Tables 7.2: Antibacterial activity of [GdCuL2(bpy)2(NO3)2] complex**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Microorganisam** | **25** | **50** | **75** | **100** | **125** |
| *Klebsiella* | 0.66 ± 0.11 | 0.71 ± 0.11 | 0.71 ± 0.11 | 0.80 ± 0.10 | 0.80 ± 1.00 |
| *S.typhi* | 0.00 ± 0.00 | 0.00 ± 0.00 | 0.00 ± 0.00 | 0.00 ± 0.00 | 0.80 ± 0.10 |
| *C.albicans* | 0.00 ± 0.00 | 0.00 ± 0.00 | 0.00 ± 0.10 | 0.00 ± 0.00 | 0.67 ± 0.11 |
| *S.typhiParaA* | 0.00 ± 0.00 | 0.00 ± 0.00 | 0.00 ± 0.00 | 0.00 ± 0.00 | 0.00 ± 0.00 |
| *P.aeruginosa* | 0.00 ± 0.00 | 0.00 ± 0.00 | 0.30 ± 0.00 | 0.55 ± 0.00 | 0.56 ± 0.11 |

**Tables 7.3: Antibacterial activity of [GdCuL3(bpy)2(NO3)2] complex**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Microorganisam** | **25** | **50** | **75** | **100** | **125** |
| *Klebsiella* | 0.00 ± 0.00 | 0.00 ± 0.00 | 0.00 ± 0.00 | 0.00 ± 0.00 | 0.00 ± 0.00 |
| *S.typhi* | 0.00 ± 0.00 | 0.00 ± 0.00 | 0.00 ± 0.00 | 0.00 ± 0.00 | 0.00 ± 0.00 |
| *C.albicans* | 0.00 ± 0.00 | 0.00 ± 0.00 | 0.00 ± 0.10 | 0.00 ± 0.00 | 0.57 ± 0.01 |
| *S.typhiParaA* | 0.00 ± 0.00 | 0.00 ± 0.00 | 0.00 ± 0.00 | 0.00 ± 0.00 | 0.56 ± 0.01 |
| *P.aeruginosa* | 0.00 ± 0.00 | 0.00 ± 0.00 | 0.00 ± 0.00 | 0.00 ± 0.00 | 0.00 ± 0.00 |

**Tables 7.4: Antibacterial activity of [GdCuL4(bpy)2(NO3)2] complex**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Microorganisam** | **25** | **50** | **75** | **100** | **125** |
| *Klebsiella* | 0.63 ± 0.11 | 0.64 ± 0.11 | 0.71 ± 0.11 | 0.81 ± 0.11 | 0.82 ± 0.11 |
| *S.typhi* | 0.00 ± 0.00 | 0.00 ± 0.00 | 0.00 ± 0.00 | 0.00 ± 0.00 | 0.60 ± 0.10 |
| *C.albicans* | 0.00 ± 0.00 | 0.00 ± 0.00 | 0.00 ± 0.00 | 0.00 ± 0.00 | 0.61 ± 0.05 |
| *S.typhiParaA* | 0.00 ± 0.00 | 0.00 ± 0.00 | 0.00 ± 0.00 | 0.00 ± 0.00 | 0.60 ± 0.05 |
| *P.aeruginosa* | 0.00 ± 0.00 | 0.00 ± 0.00 | 0.00 ± 0.00 | 0.00 ± 0.00 | 0.60 ± 0.10 |

**Tables 7.5: Antibacterial activity of [GdCuL5(bpy)2(NO3)2] complex**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Microorganisam** | **25** | **50** | **75** | **100** | **125** |
| *Klebsiella* | 0.65 ± 0.11 | 0.65 ± 0.11 | 0.71 ± 0.11 | 0.71 ± 0.10 | 0.71 ± 0.11 |
| *S.typhi* | 0.00 ± 0.00 | 0.00 ± 0.00 | 0.00 ± 0.00 | 0.00 ± 0.00 | 0.00 ± 0.00 |
| *C.albicans* | 0.00 ± 0.00 | 0.00 ± 0.00 | 0.60 ± 0.10 | 0.61 ± 0.10 | 0.60 ± 0.05 |
| *S.typhiParaA* | 0.00 ± 0.00 | 0.00 ± 0.00 | 0.00 ± 0.00 | 0.00 ± 0.00 | 0.00 ± 0.00 |
| *P.aeruginosa* | 0.00 ± 0.00 | 0.00 ± 0.00 | 0.00 ± 0.00 | 0.00 ± 0.00 | 0.60 ± 0.05 |