

# **Bio-fabrication of gold nanoparticles using *Capsicum annuum* extract and its antiquorum sensing and antibiofilm activity against bacterial pathogens**

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## Supplementary table

**Table S1.** Effect of sub-MICs of GTEF on inhibition of virulence factors of *P. aeruginosa* PAO1 and *S. marcescens* MTCC 97.

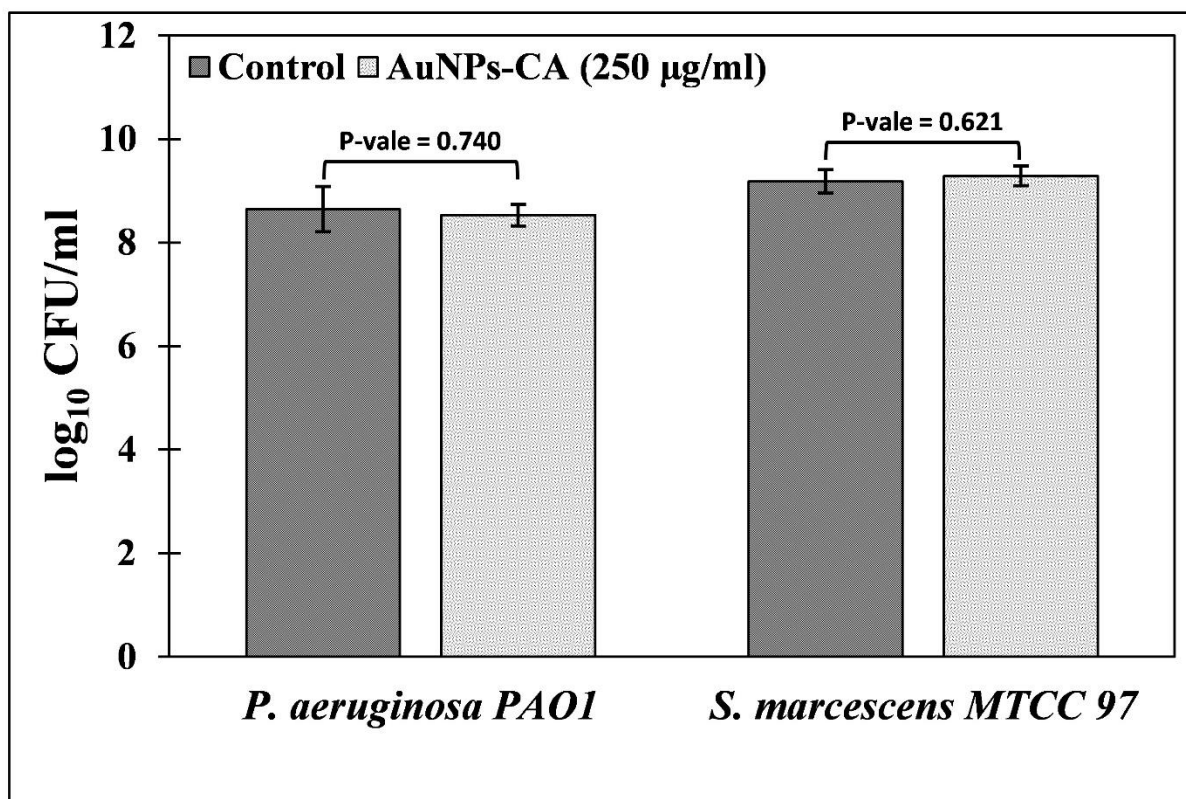
| AuNPs-CA concentration | Virulence factors of <i>P. aeruginosa</i> PAO1 |           |                |                   |             |                   |
|------------------------|--|-----------|----------------|-------------------|-------------|-------------------|
|                        | Pyocyanin <sup>a</sup>                         | Pyoverdin | Total protease | Elastase activity | Rhamnolipid | Swimming motility |
| 25 µg/ml               | 50.28  | 16.98     | 33.77          | 17.71             | 10.77       | 6.69              |
| 50 µg/ml               | 63.75  | 26.77     | 57.47          | 29.96             | 24.85       | 9.66              |
| 100 µg/ml              | 76.75  | 51.59     | 73.04          | 46.66             | 40.08       | 17.84             |
| 200 µg/ml              | 91.94  | 72.16     | 81.82          | 65.72             | 46.66       | 46.09             |

|           | Virulence factors of <i>S. marcescens</i> MTCC 97 |                   |                             |                   |
|-----------|---|-------------------|-----------------------------|-------------------|
|           | Prodigiosin                                       | Protease activity | Cell surface hydrophobicity | Swarming motility |
| 25 µg/ml  | 25.07   | 09.69             | 44.83                       | 01.48             |
| 50 µg/ml  | 39.73   | 25.81             | 35.53                       | 18.95             |
| 100 µg/ml | 63.59   | 41.48             | 21.16                       | 29.36             |
| 200 µg/ml | 78.41   | 57.65             | 12.03                       | 72.86             |

All virulence factors are presented as percent inhibition with respect to the control. Cell surface hydrophobicity (CSH) is presented as % CSH

Supplementary figure



**Figure S1.** Effect of AuNPs-CA (200 µg/ml) on the viability of *P. aeruginosa* PAO1 and *S. marcescens* MTCC 97.