

## **SUPPORTING INFORMATION**

**Development of Piperazine-1-carbothioamide titivated chitosan silver nanoparticle (P1C-Tit\*CAgNP) as promising anti-inflammatory candidate:**

**A molecular docking validation**

**C. S. Karthik<sup>1</sup>, H. M. Manukumar<sup>1,2</sup>, S. Sandeep<sup>1</sup>, B. L. Sudarshan<sup>3</sup>,  
S. Nagashree<sup>1</sup>, L. Mallesha<sup>4</sup>, K. P. Rakesh<sup>5\*</sup>, K. R. Sanjay<sup>3</sup>, P. Mallu<sup>1\*</sup> and  
Hua-Li Qin<sup>5\*</sup>**

<sup>1</sup>Department of Chemistry, Sri Jayachamarajendra College of Engineering, Mysuru-570 006, Karnataka, India

<sup>2</sup>Department of Studies in Biotechnology, University of Mysore, Manasagangotri, Mysuru-570006, Karnataka, India

<sup>3</sup>Department of Biotechnology, Sri Jayachamarajendra College of Engineering, Mysuru-570 006, Karnataka, India

<sup>4</sup>PG Department of Chemistry, JSS College of Arts, Commerce and Science, Mysuru-570 025, Karnataka, India

<sup>5</sup>Department of Pharmaceutical Engineering, School of Chemistry, Chemical Engineering and Life Science, Wuhan University of Technology, 205 Luoshi Road, Wuhan, 430073, PR China

### **\*Corresponding authours**

E-mail: rakeshasg@gmail.com

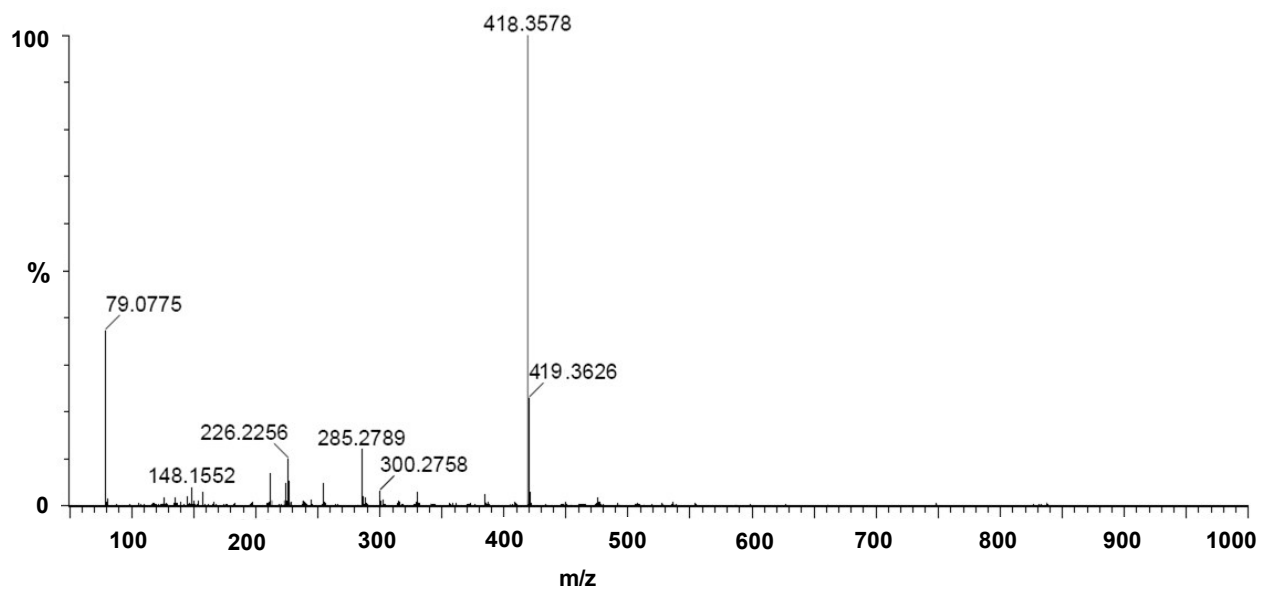
Fax: +91 7619540544

E-mail: drmallu66@gmail.com

Fax: +91 9480057349

E-mail: qinhuali@whut.edu.cn

Fax: +86 27 87749300.



**Figure 1:** Mass spectra of N-(4-Chlorophenyl)-4-(2,3-dihydrobenzo[b][1,4]dioxine-2-carbonyl)piperazine-1-carbothioamide (3)

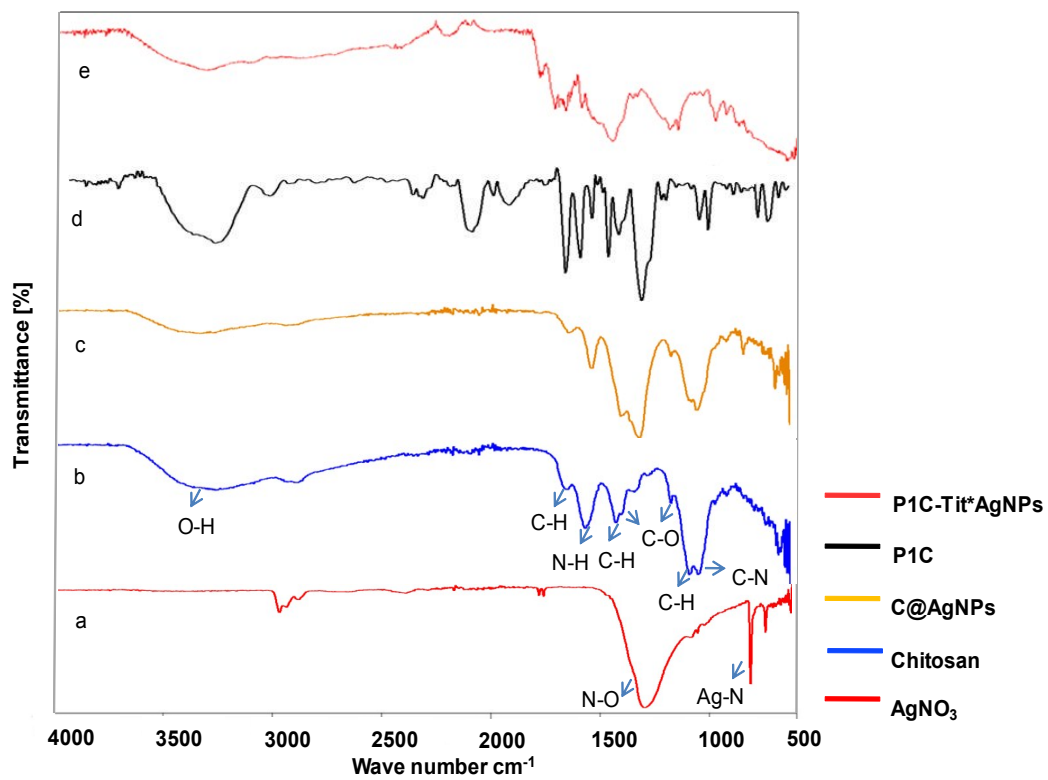


Figure 2: FT-IR data of formation of nano particles