Electronic Supplementary Material (ESI) for New Journal of Chemistry. This journal is © The Royal Society of Chemistry and the Centre National de la Recherche Scientifique 2020

Supporting information

Bacterial biosynthesis of nanosilver: A green catalyst for the synthesis of (amino pyrazolo) - (Phenyl) methyl naphth-2-ol derivatives and their antimicrobial potential

Ganji Praveena,^{a,c} Swetha Yagnam,^{b,c} Linga Banoth,^{a,c} Rajiv Trivedi,^{*b,c} Reddy Shetty Prakasham^{*a, c},

- ^a Organic Synthesis and Process Chemistry, CSIR-Indian Institute of Chemical Technology, Hyderabad 500007, Telangana, India
- ^b Catalysis and Fine Chemicals Division, CSIR-Indian Institute of Chemical Technology, Hyderabad 500007, Telangana, India
- ^c Academy of Scientific and Innovative Research, AcSIR CSIR-IICT Campus, Hyderabad, 500007, Telangana, India
- Correspondence to: Dr. R. S. Prakasham, Organic Synthesis and Process Chemistry, CSIR-Indian Institute of Chemical Technology (IICT), E-mail:<u>prakasam.iict@gov.in</u>, Organic Synthesis and Process Chemistry, Dr. Rajiv Trivedi, Catalysis and Fine Chemicals Division, CSIR-Indian Institute of Chemical Technology (IICT), Uppal Road, Tarnaka, Hyderabad, Telangana, 500007, India. E-mail: <u>trivedi@iict.res.in</u>, trivedi.iict@gov.in

1) ¹H NMR and ¹³C NMR of compound (4a-h) and HRMS of compound (4a-h) S2-S14

 $^1\mathrm{H}$ NMR (400 MHz, CDCl_3, Me_4Si, ppm) of compound 4a



¹³C NMR (126 MHz, CDCl₃) of compound 4a



HRMS of compound 4a



¹H NMR (400 MHz, CDCl₃, Me₄Si, ppm) of compound 4b



¹³C NMR (126 MHz, CDCl₃) compound 4b



HRMS of compound 4b



¹H NMR (400 MHz, CDCl₃, Me₄Si, ppm) compound 4c



¹³C NMR (101 MHz, CDCl₃) compound 4c



HRMS of compound 4c



¹H NMR (500 MHz, CDCl₃, Me₄Si, ppm) of compound 4d



 ^{13}C NMR (101 MHz, CDCl_3) of compound 4d





¹H NMR (400 MHz, CDCl₃, Me₄Si, ppm) of compound 4e





¹³C NMR (101 MHz, CDCl₃) of compound 4e





¹H NMR (400 MHz, CDCl₃, Me₄Si, ppm) of compound 4f



¹³C NMR (101 MHz, CDCl₃) of compound 4f



HRMS of compound 4f



¹H NMR (500 MHz, CDCl₃, Me₄Si, ppm) of compound 4g





 ^{13}C NMR (101 MHz, CDCl₃) of compound 4g

HRMS of compound 4g



¹H NMR (500 MHz, CDCl₃, Me₄Si, ppm) of compound 4h



 ^{13}C NMR (126 MHz, CDCl_3) of compound 4h



HRMS of compound 4h





Figure : Fourier transform infrared spectrum of (**A**) Cell free supernatant of *Streptomyces* sp RAB 10 and (**B**) AgNPs synthesized by Cell free supernatant of *Streptomyces* sp RAB 10.