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ARTICLE TYPE

Moxifloxacin-Capped Noble Metal Nanoparticles as Potential Urease Inhibitors

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Supplementary data

15

Table S-1: Urease enzyme inhibition studies of moxifloxacin, Ag and moxifloxacin-capped silver & gold nanoparticles

Sample	Moxifloxacin	Ag	Ag-Mox NPs	Au-Mox NPs	STD
Concentration (mg/mL)	0.2	0.2	0.2	0.2	0.5 (mM)
%Inhibition	57	29.2	93	47.6	98.2
IC ₅₀ ± S.E.M (µg/mL)	183.25 ± 2.06	NA	0.66 ± 0.042	NA	21 ± 0.11 (µM)

S.E.M = Standard error mean; STD = Standard; Mox = Moxifloxacin; NA = Not active

Table S-2: Antibacterial activities of moxifloxacin and its silver and gold nanoparticles

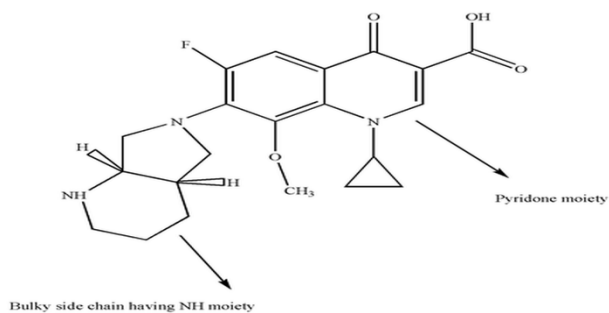
Bacterial strain	Strain	Moxifloxacin	Ag-Mox	Au-Mox	Streptomycin (STD)
<i>Staphylococcus aureus</i>	+	Zone of inhibition (mm) at 3 mg/ mL			24
		16	15	13	
<i>Bacillus subtilis</i>	+	18	18	16	26
<i>Klebsiella pneumonia</i>	-	20	18	17	24

Well size = 6 mm, STD = Standard

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Structure 1: Molecular structure of moxifloxacin