

SUPPORTING INFORMATION

Plant pathogenic fungus *F. solani* mediated biosynthesis of Nanoceria: Antibacterial and antibiofilm activity

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Received (in XXX, XXX) Xth XXXXXXXXXX 20XX, Accepted Xth XXXXXXXXXX 20XX
DOI: 10.1039/b000000x

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Table S1. FTIR peaks and their respective assignment of functional groups

S. No	FTIR peak (cm ⁻¹)	Functional groups
1	3459	-OH stretching
2	1657, 1229	Amides
3	1348	C-N stretching of aromatic amines
4	1073	-C-O-C

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Table S2. EDAX data of CeO₂ nanoparticles

Element	Weight%	Atomic%
O K	23.08	72.44
Ce L	76.92	27.56
Totals	100.00	100

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Table S3. Comparison of antibacterial activity with the previous work

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Sl. No	Method	Concentration	Bacteria	ZOI(in mm) mean ±SE	Ref.
1	Well diffusion	500µg/50 µl	<i>E. coli</i>	2.67	1
		1000µg/100 µl	<i>S. aureus</i>	1.67	
2	Disc diffusion	2mg/ml	<i>E. coli</i>	3	2
3	Disc diffusion	10mg/disc	<i>E. coli</i>	-	3
			<i>S. aureus</i>	-	
			<i>P. aeruginosa</i>	-	
			<i>K. pneumoniae</i>	-	
		50mg/disc	<i>E. coli</i>	3	
			<i>S. aureus</i>	3.5	
			<i>P. aeruginosa</i>	3	
			<i>K. pneumoniae</i>	2.8	
		100mg/disc	<i>E. coli</i>	4	
<i>S. aureus</i>	5.5				
<i>P. aeruginosa</i>	4.5				
<i>K. pneumoniae</i>	4.5				
4	Disc diffusion	1mg/disc	<i>E. coli</i>	2	This work
			<i>S. aureus</i>	5	
			<i>P. aeruginosa</i>	1	
			<i>K. pneumoniae</i>	3	
		3mg/disc	<i>E. coli</i>	6	
			<i>S. aureus</i>	6	
			<i>P. aeruginosa</i>	9	
			<i>K. pneumoniae</i>	7	
		5mg/disc	<i>E. coli</i>	7	
<i>S. aureus</i>	7				
<i>P. aeruginosa</i>	10				
<i>K. pneumoniae</i>	8				

References

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