

# Supplementary Materials: Validating Anti-Infective Activity of *Pleurotus Opuntiae* via Standardization of Its Bioactive Mycoconstituents through Multimodal Biochemical Approach

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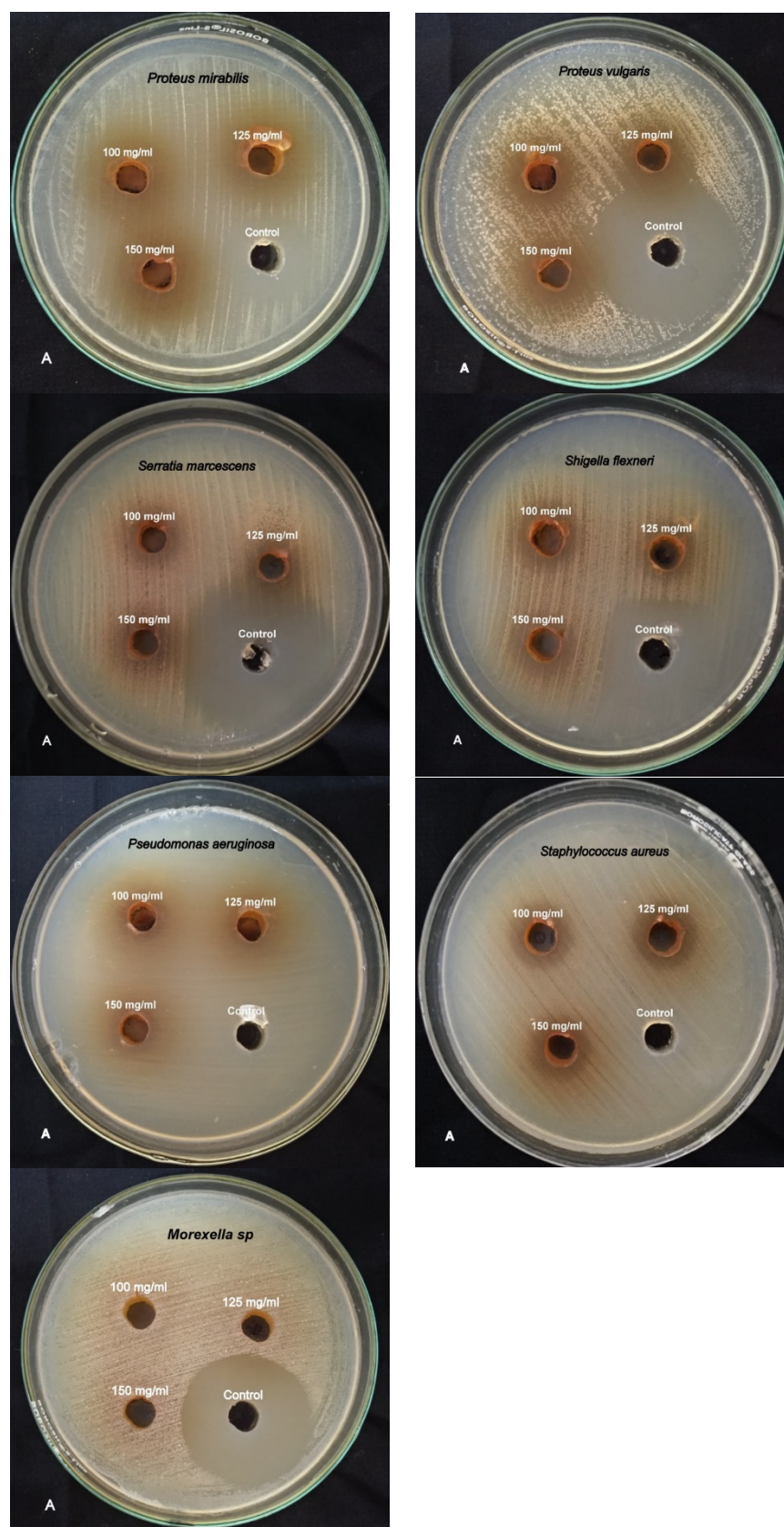
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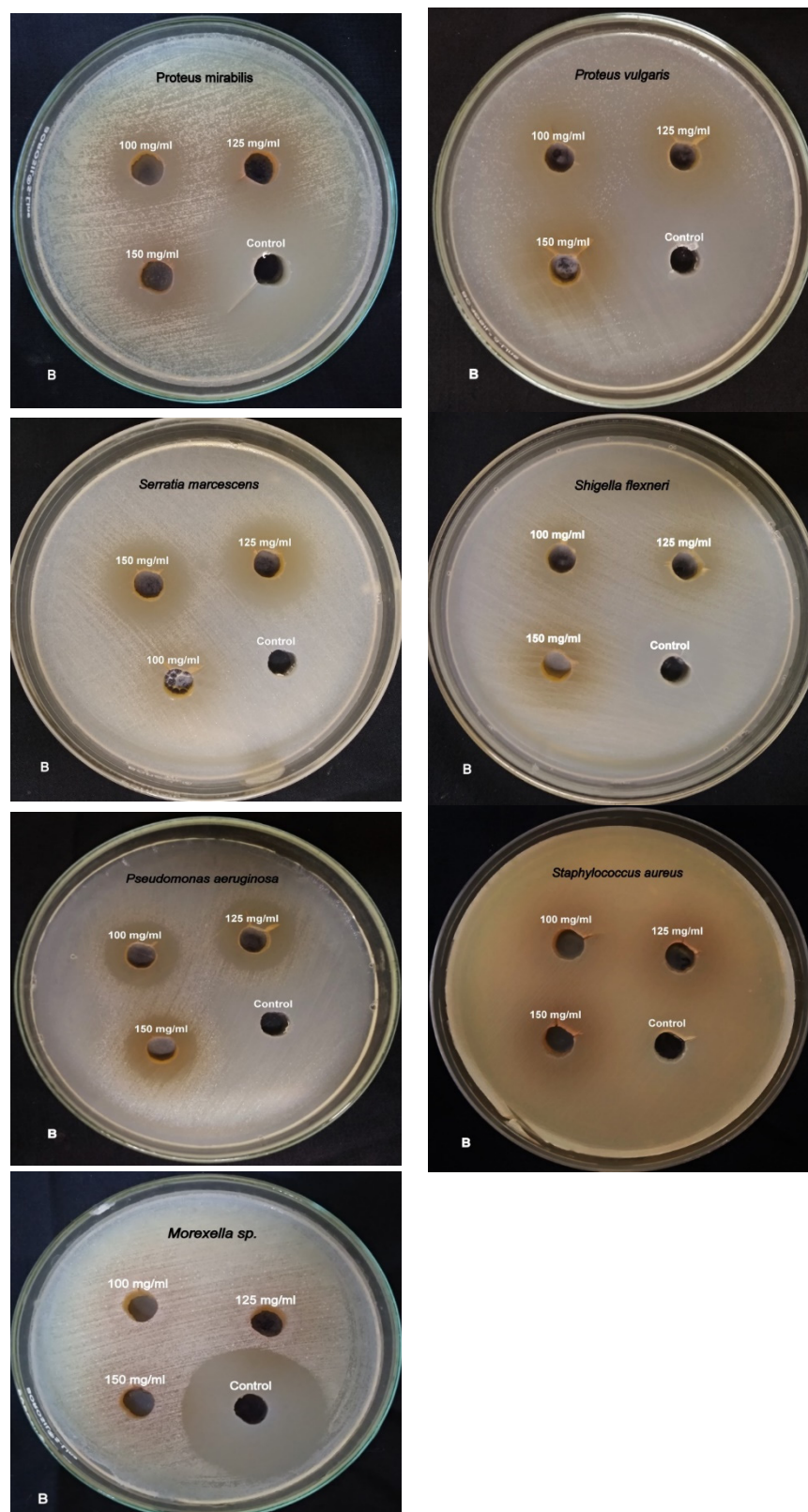
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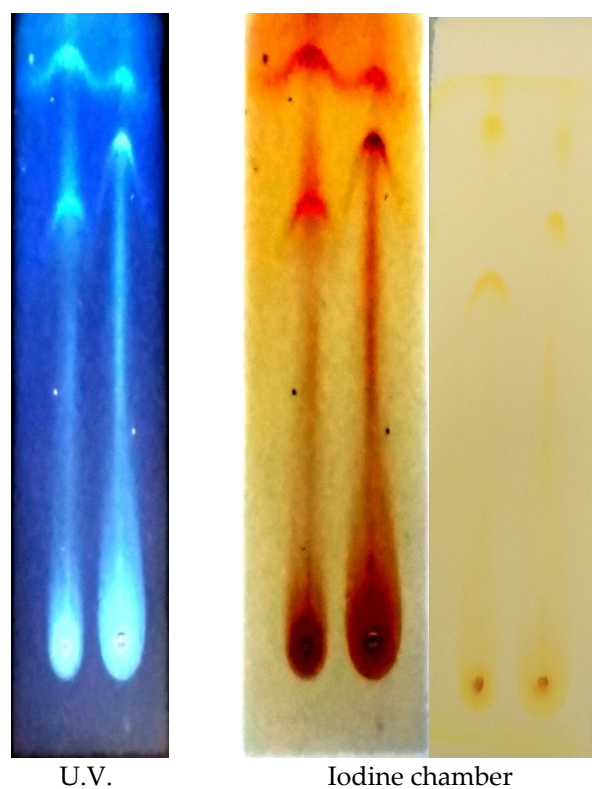
(A)



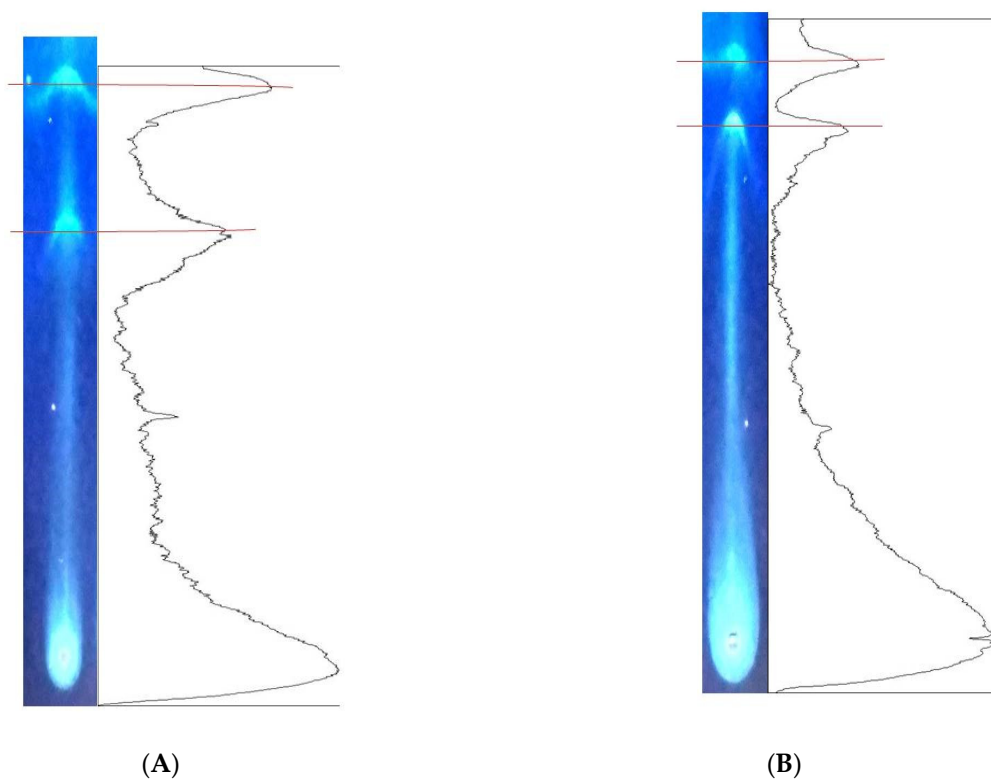
(B)

**Figure S1.** (A) Shows antimicrobial activity of *P. opuntiae* (Ethanol extract) against pathogens; (B) Shows antimicrobial activity of *P. opuntiae* (Methanol extract) against pathogens Control: Gram positive- penicillin, Gram negative- ciprofloxacin antibiotic.

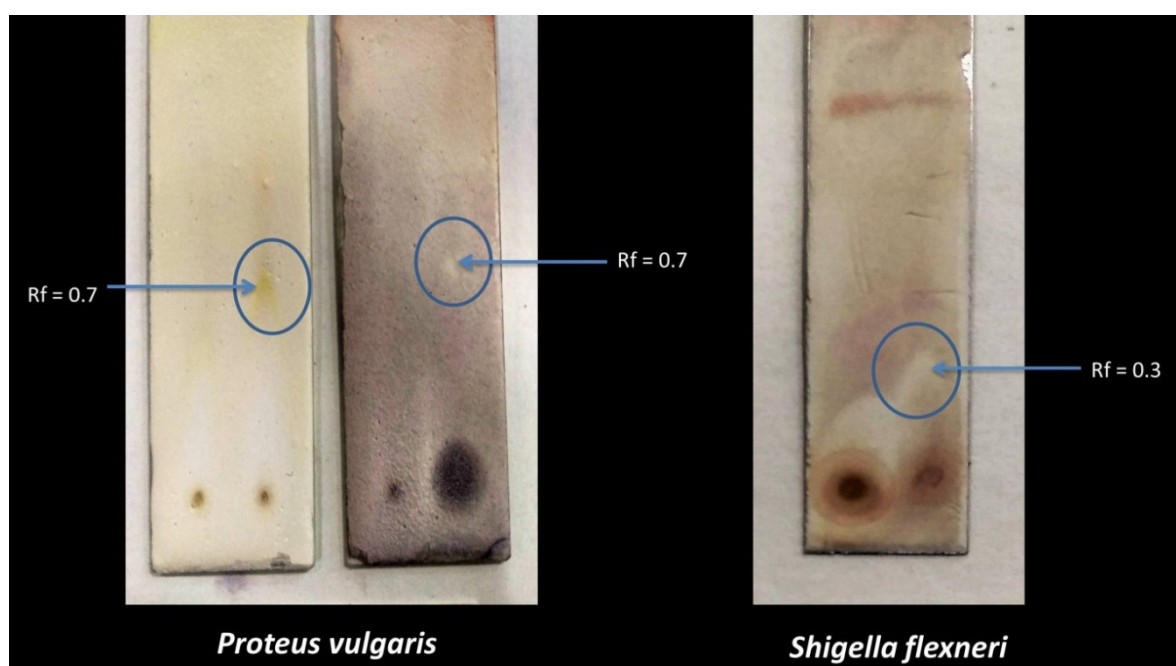




**Figure S2.** Shows TLC profile of ethanol and methanol extracts of *P. opuntiae* in 100% Chloroform solvent system.



**Figure S3.** TLC and ImageJ program chromatograms of (A) Ethanol extract fraction and (B) methanol fraction of *P. opuntiae* in 100% chloroform which shows only 2 spots respectively (Total 4 spots).



**Figure S4.** Shows the bioautography result of *Proteus vulgaris* (before spraying and after spraying INT) and *Shigella flexneri* (after spraying INT) in silica gel coated plate.

**Table S1.** Standardization of different solvent systems for TLC to separate compounds in form of total no. of spots in ethanol and methanol extracts of *P. opuntiae*.

S. No.	Solvent Systems	Ratio of Solvent Systems (mL)	Total No. of Spots (Ethanol and Methanol)
1.	Chloroform + Ethyl acetate + Formic acid	5:4:1	2
2.	Ethylacetate + methanol + distilled water	40:5:5	2
3.	Chloroform + Ethyl acetate + Formic acid	5:4:1.5	2
4.	Butanol+acetic acid + distilled water	8:2:2	2
5.	Chloroform + Ethyl acetate + Formic acid	8:2:1	2
6.	Butanol + acetic acid + distilled water	8:1:0.5	2
7.	Chloroform + methanol + Formic acid	7:1:1	3
8.	100% chloroform	100	4
9.	Chloroform + hexane	8:2	5
10.	Chloroform + Ethyl acetate	7:3	3
11.	Chloroform + methanol	9:1	3
12.	Chloroform + Ethyl acetate	5:5	3
13.	Chloroform+methanol	9.5:0.5	2
14.	Chloroform + Ethyl acetate + Formic acid	3:6:0.2	3
15.	Chloroform + Ethyl acetate	5:5	3
16.	Chloroform + Ethyl acetate + Formic acid	5:4:1	3
17.	Chloroform + methanol + Formic acid	9.5:0.5:0.	3