

# Detection of Vasodilator Drugs through Microwave Spectroscopy of Au NP Colorimetric Probes Using Microwave Metallic Photonic Crystal-Inspired Resonant Probe

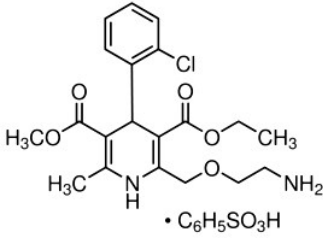
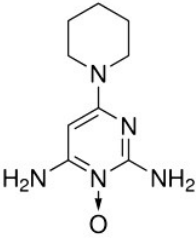
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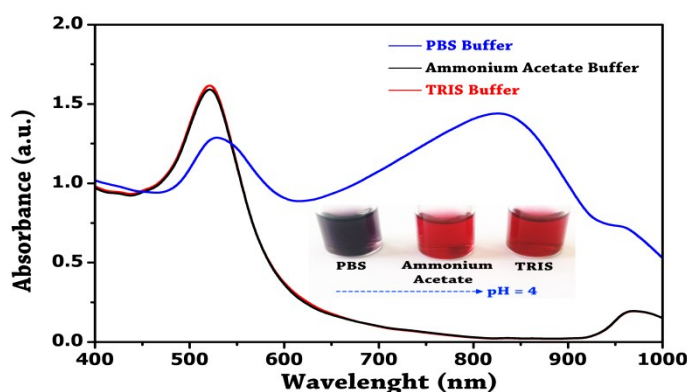
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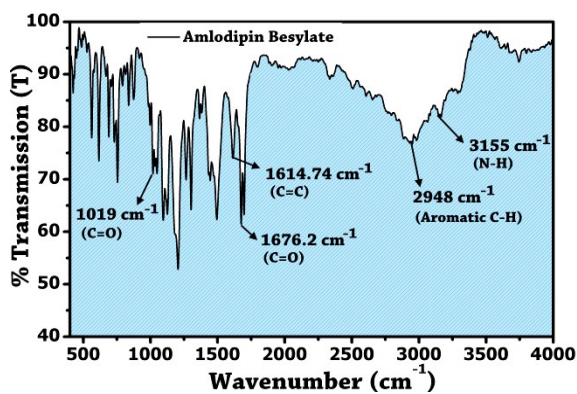
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ESI Table 1 Details of the two vasodilator drugs.

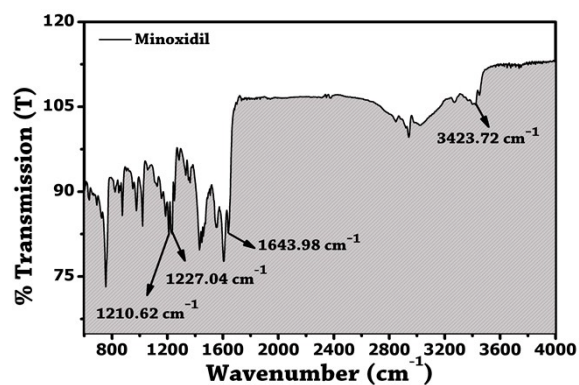
Parameters	Drug	
	Amlodipine Besylate	Minoxidil
Structure		
Molecular Weight	567.05	209.25
pKa Value	8.6	4.61



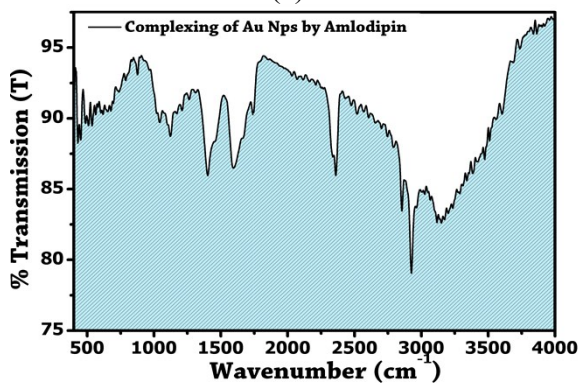
ESI Fig. 1 UV-visible absorption plot of Au NPs in the presence of PBS, ammonium acetate and TRIS buffer media at pH 4.



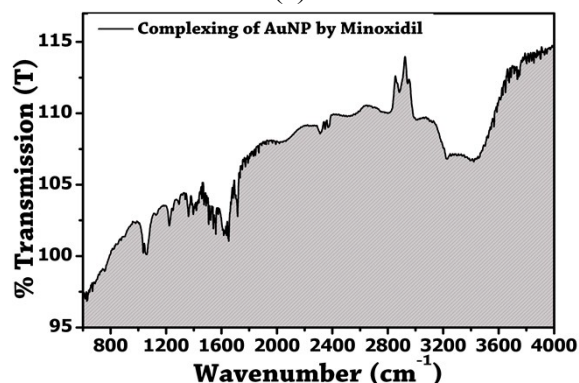
(a)



(c)



(b)



(d)

ESI Fig. 2 FT-IR spectra. (a) Pure amlodipine besylate. (b) Au NPs aggregation in the presence amlodipine besylate. (c) Pure minoxidil. (d) Au NPs aggregation in the presence of minoxidil.