



Pisonia alba ASSISTED SYNTHESIS OF NANOSILVER FOR DYE REDUCTION IN WASTEWATER

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INTRODUCTION

Pisonia alba / Lettuce Tree, is a tropical tree characterized by large, glossy green leaves and small white flowers known for its pharmacology benefits.

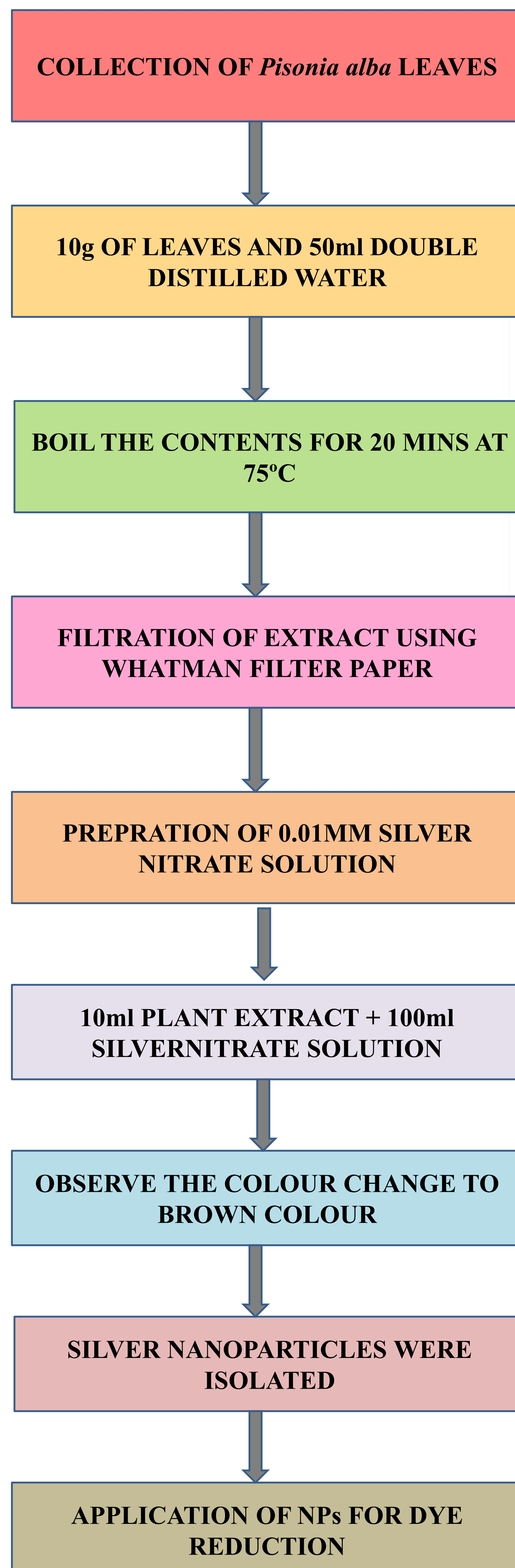
OBJECTIVES

- › To prepare *Pisonia alba* extract
- › To synthesise silver nanoparticles (Ag NPs) from the plant extract
- › Isolation of silver nanoparticles
- › Application of nanoparticles in dye reduction of waste water

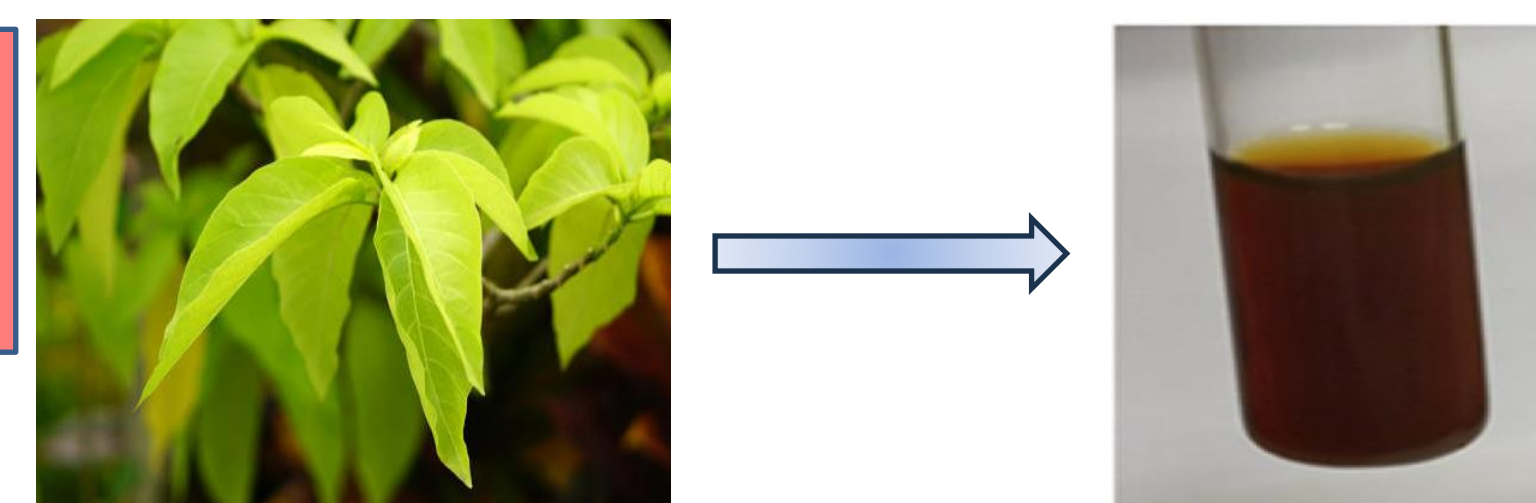
MATERIALS

- › Dried *Pisonia alba* leaves
- › Double distilled water
- › 99% pure silver nitrate solution
- › Whatman filter paper
- › Magnetic separator
- › Synthetic dye

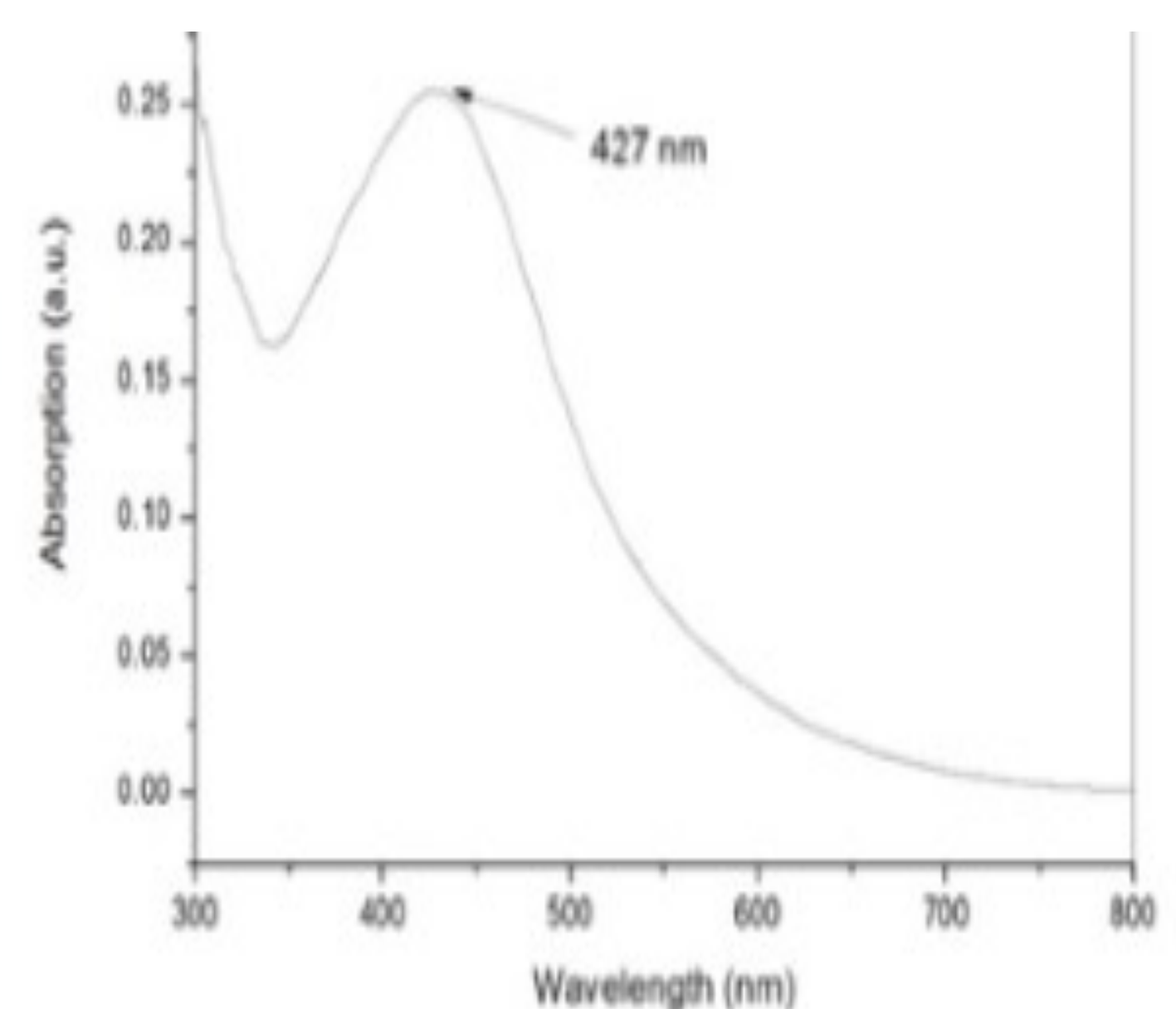
METHODOLOGY



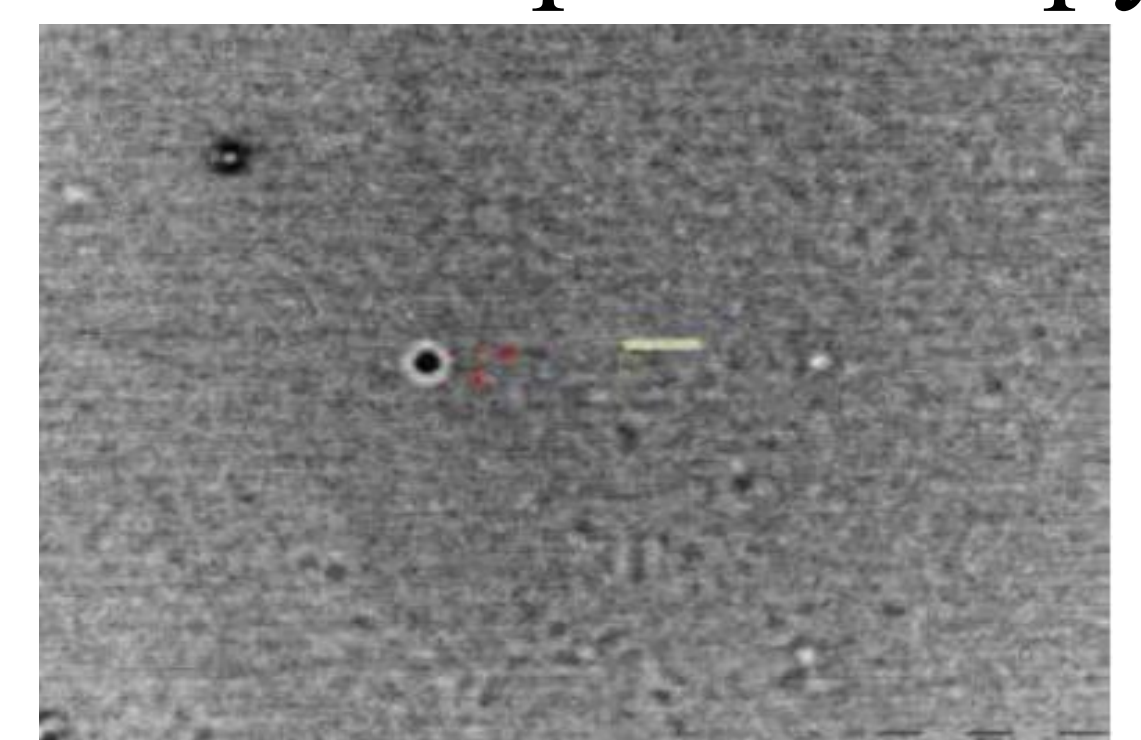
RESULTS



Synthesized Silver NPs



UV-Vis Spectroscopy



TEM Images of Silver NP from *Pisonia alba* extract

CONCLUSION

- › Ag NPs – *Pisonia alba*
- › Characterization and isolation of Ag NPs
- › The Ag NPs are used for dye reduction of waste water.