

# SYNTHESIS OF METALLIC NANOPARTICLES AND THEIR APPLICATION IN DRUG QUALIFICATION AND QUANTIFICATION

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## **Abstract**

Nanomedicine (drug) and nano delivery systems is a relatively new but rapidly developing science where materials in the nanoscale range are employed to serve as a means of diagnostic tools or to deliver therapeutic agents to specific targeted sites in a controlled manner. The present study consists of synthesis of Silver (Ag) Nanoparticles using chemical methods. The drugs used for the research belong to schedule H and P. For the experimental purpose, Silver nanocolloid solution was prepared chemically by the reduction of silver salt using trisodium citrate silver Nanoparticles synthesis using wet chemical method through reducing  $Ag^{2+}$  to  $Ag^0$  state. The Nanoparticles synthesised will be characterised using different instrumental techniques such as UV-Vis, DLS, and SEM.

**KEY WORDS:** Silver nano particles (Ag-NPs), reducing agent, SEM, schedule drugs