

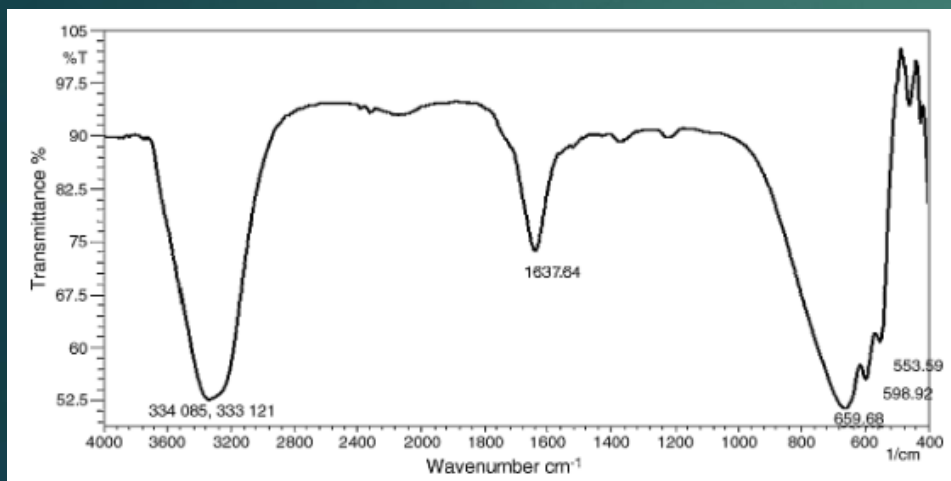
# Biosynthesis of PVA encapsulated silver nanoparticles

\*In this work they use silver nanoparticles synthesized with *Ocimum sanctum* leaf extract at room temperature.

\*These particles were encapsulated with polyvinyl alcohol (PVA) polymer matrix.

\*They use FTIR to identify the functional groups present in the colloidal form of the PVA embedded silver nanoparticles.

## RESULTS



\*The FTIR method is important to determine the Internal structure and the intra-molecular interaction between PVA and filler.

\*The peaks were observed at  $3340\text{ cm}^{-1}$ ,  $1637\text{ cm}^{-1}$ ,  $659\text{ cm}^{-1}$  to  $553\text{ cm}^{-1}$ . They indicates that the peak at  $3340\text{ cm}^{-1}$  shows the prescence of hydrogen bond between the PVA polymer and leaf causing hydroxylamine ( $OH/NH_2$ )