**ZnS nanoparticle characterization and antimicrobial activity**

**Moly M. Rosea**\***, R. Sheela Christyb, T. Asenath Benittab**

*aM*ar Ephraem College of Engineerning and Technology, Elavuvilai, Tamilnadu, India

bDepartment of Physics and Research Centre), Nesamony Memorial Christian College, Marthandam, Affiliated to Manonmaniam Sundaranar University, Abishekapatti, Tirunelveli, Tamil Nadu, India

\*Corresponding Author e-mail: [molyrengith@gmail.com](mailto:molyrengith@gmail.com)

**ABSTRACT**

In the present study, the objective was the ZnS nanoparticles are prepared by chemical co-precipitation method and analysis Antimicrobial activity against oral pathogens is demonstrated, and the characteristics of synthesized nanoparticles are investigated by using x-ray diffraction (XRD), scanning electron microscopy(SEM), ultraviolet-visible (UV-Vis),Fourier transform infrared spectroscopy(FTIR).