

**Abstract:**

**In present work titanium dioxide (TiO<sub>2</sub>) was prepared by simple green synthesis method from *Aspergillus eucalypticola* SLF1 fungus using titanium chloride as precursor salt. XRD confirms tetragonal crystal structure of TiO<sub>2</sub>. FESEM study revealed spherical monodisperse morphology nanoparticles. EDS spectra indicates purity of material. Tetragonal titanium dioxide shows effectively degradation methylene blue dye 91% within 60min and antimicrobial activity against pathogenic strains.**