

# Green Synthesis of TiO<sub>2</sub> Nanoparticles for Pharmaceutical Applications

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**Abstract:** Nature inspires researcher to carry out new research in the field of science and technology, especially in the field of nanotechnology. In those natural systems *Hibiscus rosasinensis* plant is one having very important medical properties, Hence used in cough treatments, fertility treatments, henna and it has positive effects on heart disease also. Present research work focused on to synthesis of Titanium dioxide (TiO<sub>2</sub>) nanoparticles from flower extract of *Hibiscus rosasinensis* plant using Green synthesis method. The hibiscus flowers were collected and dried under shadow, extract was collected using it. The titanium isopropoxide is used in hibiscus extract and PH value is maintained. The obtained TiO<sub>2</sub> nanoparticles have been characterized by X-ray Diffractometer (XRD), Scanning Electron Microscopy (SEM), EDAX & FTIR respectively..

**Keywords:** Titanium dioxide, XRD, FTIR, SEM, EDAX

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