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# F-T Raman, Microhardness and Photoconductivity study of Zinc Sulphate doped L-Threonine dihydrogen phosphate Single Crystal

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**Abstract :** Single crystals of Zinc sulphate doped L-Threonine dihydrogen phosphate (LTDP) have been successfully grown by slow evaporation method. FT-Raman spectra of doped crystal were recorded and interpreted. Photoconductivity of grown crystal was established by photoconductivity meter. Vickers hardness test was also carried out to elucidate the mechanical behaviour of the grown crystals. **Keywords:** Slow evaporation method, Photoconductivity, Microhardness and FT-Raman Study.

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