

DATA ON IN-VITRO ANTIBACTERIAL ACTIVITY AND THIRD ORDER NLO PROPERTY OF 2-AMINOPYRIDINE COPPER SULPHATE (2APCS)

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Highlights

- 2APCS crystal was harvested using slow evaporation process in ambient temperature.
- In linear optical study UV cut off wavelength 237 nm and 97% transparency in the entire visible regions are recorded.
- In photoluminescence, emission of green laser attests the optical application of the 2APCS crystal.
- The mechanical coefficient value $n = 4.77$ calculated using Vickers microhardness test, confirms the 2APCS fit in to soft category.
- THG parameters were calculated for 2APCS using Z- scan technique.
- In antimicrobial activity, compound 2APCS was most effective retarding microbial growth of the bacteria *Enterococcus faecalis* (MTCC 439) followed by other bacteria *Escherichia coli* (MTCC 443) and *Staphylococcus aureus* (MTCC 96), But compared to the standard streptomycin our compound was not much effective.

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