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A Study of Antimicrobial Activity of High Fluorescent Cadmium Telluride Nanoparticles

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Abstract: In this work CdTe was synthesised at low temperature in an aqueous medium using mercaptopropionic acid (MPA) as capping agent in the absence of inert atmosphere. The optical studies demonstrated the formation of CdTe nanoparticles (NPs). Scanning electron microscope revealed the presence of CdTe NPs. Antimicrobial activity was also tested against the gram positive bacteria *Escherichia coli* and *Klebsiella Pneumoniae* as well as gram positive bacteria *Bacillus subtilis*, *salmonella typhi* and the effect was more pronounced with gram negative bacteria.

Keywords: Nanocrystal, fluorescent imaging, photoluminescence, antimicrobial.

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