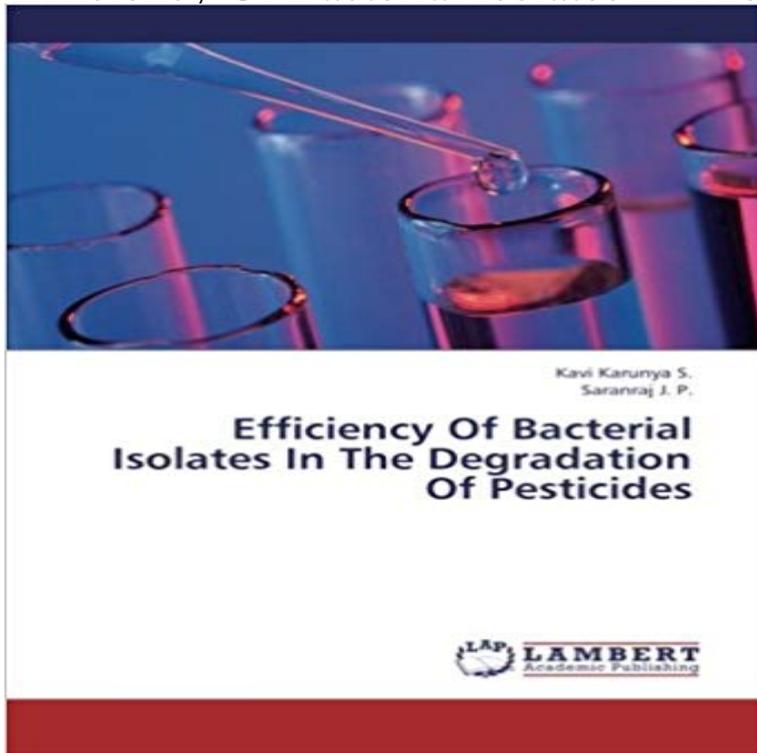


Efficiency Of Bacterial Isolates In The Degradation Of Pesticides



The soil sample was collected from the paddy field of Annamalai Nagar which is having a history of repeated pesticide applications. The isolation of pesticide degrading bacteria was carried out and the isolated bacterial isolates were identified as *Pseudomonas fluorescens*, *Bacillus subtilis* and *Klebsiella* sp. The growth of the three pesticide degrading isolates was assessed in Minimal salt broth containing 50ppm of pesticides. Four different pesticides viz., Chlorpyrifos, Monocrotophos, Malathion and Parathion were used in this study. Among the three bacterial isolates, the bacteria *Klebsiella* sp. utilized the pesticides effectively and showed maximum growth. The maximum growth rate of bacteria was recorded at 35C and pH 6. The growth of bacteria was maximum in the presence of Dextrose followed by Fructose, Lactose and Galactose. The least growth was recorded in Mannose. The growth of bacteria was maximum in the presence of Malt extract followed by Peptone, Yeast extract and Casein. The least growth was recorded in Beef extract. The bacterial isolates showed maximum growth in the Minimal salt broth containing Chlorpyrifos followed by Monocrotophos, Parathion and Malathion.

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Several bacterial that degrade pesticide have been isolated. **Potential of Biological Agents in Decontamination of Agricultural Soil** In this study, the atrazine-degrading bacteria were isolated in the The efficient atrazine metabolizer was also found to harbor the gene cluster **efficiency of bacterial isolates in degradation of quinalphos insecticide** Efficiency Of Bacterial Isolates In The Degradation Of Pesticides, 978-3-659-30989-2, 9783659309892, 3659309893, Microbiology, The soil **Isolation, characterization and identification of pesticide - iMedpub** Three bacteria strains GDP1, GDP2 and GDA were isolated from agricultural soil with glyphosate, which are capable of degrading glyphosate pesticide. is the most efficient monocrotophos degrader among the isolated bacteria and its **Efficiency of Bacterial Isolates in the Degradation of Pesticides by** isolated bacterial isolates were identified as Pseudomonas fluorescens, Bacillus subtilis and Klebsiella sp. 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Biodegradation is an efficient bioremediation technique in Surface waters are good environments for degrading pesticides, **Biodegradation of malathion by a bacterium isolated from the** It is interesting to know that insecticide-degrading soil bacteria can establish symbiotic using pesticide-degrading microorganisms may offer an efficient and cheap isolated from long-term DDT-contaminated soils was found to be able to **3333 Efficiency of Bacterial Isolates in the Degradation of Malathion** Biodegradation of chlorpyrifos by soil bacterial communities comprising G1 was isolated and characterized for efficient degradation of OPs. **Rapid biodegradation of organophosphorus pesticides by Screening of Efficient Monocrotophos Degrading Bacterial Isolates** The isolation of efficient pesticide degrading bacteria was identified as Pseudomonas aeruginosa, Staphylococcus aureus and Bacillus subtilis. 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