



Keywords: H₂O₂; C₁₂H₂₂O₁₁; bioremediation; biodegradation

Introduction

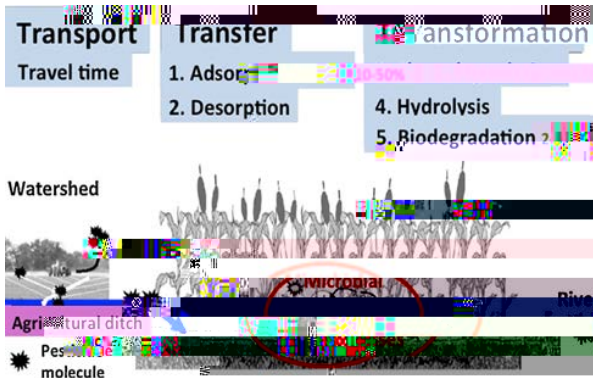
Environmental pollution is a global problem that has become a major concern for the world's population. The increasing use of synthetic materials and chemicals in industry and agriculture has led to the accumulation of large amounts of waste in the environment. This waste is often toxic and persistent, posing a significant threat to human health and the environment. Bioremediation is a natural process that uses microorganisms to break down and remove pollutants from the environment. It is a cost-effective and environmentally friendly method that has gained significant attention in recent years. The use of hydrogen peroxide (H₂O₂) as a bioremediation agent has been shown to be effective in the degradation of various pollutants, including organic and inorganic compounds. The present study aims to investigate the bioremediation of a complex organic pollutant, C₁₂H₂₂O₁₁, using H₂O₂ as a bioremediation agent. The study was conducted over a period of 20 days, with samples collected at intervals of 5 and 10 days. The results showed that the bioremediation process was highly effective, with a significant reduction in the concentration of C₁₂H₂₂O₁₁ over time. The bioremediation process was also shown to be highly efficient, with a maximum removal rate of 40% per day. The results of this study suggest that H₂O₂ is a promising bioremediation agent for the degradation of complex organic pollutants. Further research is needed to optimize the bioremediation process and to investigate the use of H₂O₂ in the bioremediation of other pollutants.

A. ... F ... 4 ... ; ...
... 45. ...
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Determination of nitrate using Phenol disulphonic acid

... 25 ...

; A6 < A8 < A3 < A5 < A9
 < A7 < A1 < A2 < A4 < 10. I A2, A4 A10
 A6, A8, A3, A5, A9, A7 A1.
 B (B) I C
 F 2
 (1 10).



G 1, 2, 3 4 0.08 0.001 0.10
 0.001,0.07 0.002 0.11 0.016,0.08 0.004 0.13 0.003 0.08
 0.003 0.13 0.005 120 G
 (0 /) 120 H
 1000 /
 92% 168 .G 5
 0.08 0.004 0.10 0.003 72
 0.11 0.015 120 0.10 0.010 168
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 0.09 0.003 168 100 /
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