

Concentrated  $\text{H}_2\text{O}_2$  was prepared from a commercial reagent (30%) by placing an appropriate volume of the 30%  $\text{H}_2\text{O}_2$  in a desiccator over concentrated sulfuric acid under vacuum for 3–5 days, the concentration of the product was standardized by titration of a diluted solution with  $0.006 \text{ mol l}^{-1} \text{ KMnO}_4$  [15]. Other chemicals used in this study were of commercially available products and purchased from a local chemical reagent company. All these chemicals were of reagent grade and used as supplied without any further purification.