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ECO-Friendly Synthesis of Alcohols by Microbial and Electrochemical Techniques

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Abstract : The reduction of Benzophenone and o-hydroxyacetophenone was carried out via microorganism i.e. Baker's Yeast in free as well as in immobilized forms and electrochemical method. These reduction processes were investigated to explore the alternative eco-friendly routes for the synthesis of alcohols. The products obtained after completion of reaction were isolated, purified and characterized by combined application of chromatography including HPLC and spectroscopic techniques.

Key words : Electrochemical reduction, Baker's Yeast (BY),Immobilized Baker's Yeast (ImBY), Cyclic Voltammetry.

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