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Assessment of Activated Carbon Adsorption for Dairy Wastewater Pollutant Removal

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Abstract: *This study evaluates the efficiency of activated carbon in removing pollutants from dairy wastewater. Batch experiments were conducted to analyze the effects of contact time, adsorbent dose, and pH on COD, BOD, and TDS removal. The adsorption process was assessed using isotherm and kinetic models. Results indicate that activated carbon is effective and feasible for treating dairy effluents*

Keywords: Dairy wastewater, Activated carbon, Adsorption, COD removal, BOD reduction, Isotherm models, Wastewater treatment, Environmental engineering

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