

Removal of Azo Dye by Mediated Electrochemical Oxidation using Two-Phase Extraction

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The cationic carrier has been used for the transport of reactive black through methylene chloride. The influence of cationic carrier type and concentration of cationic carrier were investigated in order to find the optimum extraction conditions.

The extracted reactive black through methylene chloride by cationic carrier was destructed by mediated electrochemical oxidation using Ce(III)/Ce(IV) redox system in nitric acid. The maximum removal efficiency of reactive black in methylene chloride solvent was 96% within 30 min.