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Evaluation of *Moringa oleifera* seed extract coagulation in removal of some dyes in textile wastewater

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Abstract: The purpose of this paper is to irradiate the dyes by biologically through utilization involve the use of *Moreinga oleifera* seed extract, the ability of *Moringa oleifera* seed extract among other natural coagulants-to remove several different types of dyes has been investigated. Moringa oleifera has been demonstrated to have a high removal ability for anionic dyes. The study confirms the potentially of the Moringa oleifera in decolourization of dyes and thus opens up a scope for future analysis pertaining to their performance in treatment of textile effluent. In this paper the ability of natural products as *Moringa oleifera* seeds in removing dyes has been tested using two reactive and one acid dyes. After a preliminary screening for dye removal capacity. The influences of several parameters such as pH, temperature or initial dye concentration have been tested and the behavior of coagulants has been compared. The results show that pH values changed according to the kind of dye used, and dye removal decreases as pH increases. The ability of moeringa oelifera in removing dyes has been studied. At various concentrations of the dye the absorbance value is noted using a double beam UV spectrophotometer. Experiments were carried out for determining the dye removal capacity using a powder derived from Moringo oleifera seed. The results show that the color removal efficiency is attained maximum up to 90% using *moringa* as coagulant.

Keywords: *Moreingaoleifera*– decolourization- waste water- reactive dyes- acid dyes.

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