

# Application of *Moringa oleifera* Seed in Removing Colloids from Turbid Wastewater

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Description

The present study aims to investigate the performance of *Moringa oleifera* seed extract as natural coagulant in clarification of secondary wastewater treatment plant (MWWTP) located in East of Algiers, Algeria. Coagulation flocculation performance of *Moringa oleifera* was evaluated through supernatant residual turbidity after jar test trials. Various influence parameters namely *Moringa oleifera* dosage and pH have been considered. Tests on Reghaia wastewater, having 129 NTU of initial turbidity, showed a removal of 69.45% of residual turbidity with only 1.5 mg/l of *Moringa oleifera*. This sufficient removal capability encourages the use of this bioflocculant for treatment of turbid waters. Indeed, *Moringa oleifera* which is a natural resource available locally (South of Algeria) coupled to the non-toxicity, biocompatibility and biodegradability, may be a very interesting alternative to the conventional coagulants used so far.

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