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### Preparation, Characterization of Tamarind Isopropyl amine Resin and It's Application in Industrial Wastewater Treatment

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#### **ABSTRACT**

*The isopropyl amine group has been incorporated onto tamarind by a modified Porath's method of functionalization of polysaccharides. The tamarind isopropyl amine (TIPA) resin can selectively remove of lead and cadmium ions, which are contained in industrial wastewater. The TIPA resin was characterized by FTIR. The effects of various adsorption conditions, such as pH, treatment time, temperature, and adsorbent dose were also investigated. The orders of distribution coefficient values were determined.*

**Keywords:** Tamarind Isopropyl amine Resins, Industrial Wastewater, Distribution Coefficient.

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