



## Use of Vermiculite Coated with Chitosan as an Agent Adsorbent Synthetic Ions of Lead (Pb<sup>++</sup>)

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### Abstract

Vermiculite and chitosan have been used as adsorbent materials of low cost, because they present good characteristics for removal of heavy metals. This work presents a study of removal of lead ions (II) by clay vermiculite coated with chitosan, previously characterized by scanning electron microscopy (MEV). The results showed that the removal capacity of Pb<sup>++</sup> by vermiculite was, on average, 88.4% for synthetic wastewater with concentrations ranging from 1000 mg / L.

**Keywords:** *Vermiculite, chitosan, heavy metals, adsorption*

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