



ChemTech

International Journal of ChemTech Research

CODEN (USA): IJCRGG ISSN: 0974-4290

Vol.9, No.04 pp 343-349, 2016

Removal of Fe (II) and Zn (II) ions from Aqueous solutions by Synthesized Chitosan

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Abstract: Adsorption of Fe (II) and Zn (II) ions from aqueous solution onto chitosan was investigated in a batch system. The effects of initial ions concentration, solution pH, time and temperature were studied. Results indicated that chitosan could be used as a biosorbent to remove the ions from contaminated water. Synthesis of chitosan involved three main stages, demineralization, deproteinization, and deacetylation. Chitosan was characterized using Fourier Transform Infrared Spectroscopy (FTIR) and solubility in 1% acetic acid.

Keywords: Adsorption; heavy metals; Chitosan, synthesized.

Angham G. Hadi /International Journal of ChemTech Research, 2016,9(4),pp 343-349.
