

Isolation and Identification of Natural Polymers from the shells of Shrimp *Metapenaeus affinis* (H.Milne Edwards) Collected from Basrah Marshes South of Iraq

Abstract

Shrimp *Metapenaeus affinis* , were collected from Basrah marshes. Chitin were isolated from shrimps shell and transformed to Chitosan by deacetylation and then cross linking with pectic acid by glutaraldehyde to formed a semi IPNs then loaded with Nalidixic acid to decrease the absorption of the drug on urinary tract and increasing the retention time of drug in the body and this modification lead to the use of the drug for infections other than urinary tract infections and decreasing the side effects of drug.