

Membrane extraction of alkaline earth metal by phosphorylated azapodands

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Abstract

© 2016 Taylor & Francis Group, LLC. Membrane transport properties of the new lipophilic phosphorylated azapodands toward Ca(II), Ba (II), Mg(II), and Sr(II) were studied. The investigation of the processes of passive membrane ion transport showed the high values of the transfer flow of the alkaline earth metals' ions with all carriers. It was found that N,N'-bis(di-p-tolylphosphorylmethyl)-1,8-diamino-3,6-dioxaoctane (I) is the most effective carrier among all compounds studied.

<http://dx.doi.org/10.1080/10426507.2016.1227819>

Keywords

alkaline-earth metal, membrane transport, Phosphorylated azapodands