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### Separation of Uranium (VI) from associated elements using poly-(dibenzo-18-crown-6) resin from nitrate medium

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**Abstract:**A simple column chromatographic method has been developed for the separation of uranium from associated elements using poly-(dibenzo-18-crown-6). The separations are carried out from sodium nitrate medium. The adsorption of uranium was quantitative from 0.5M sodium nitrate. Amongst the various eluents tested, 1.0 8.0M HCl was found to be uranium was found to be 1.034 mmole/g of crown polymer. Uranium was separated from number of elements in binary mixtures in which most of the elements showed a very high tolerance limit. It was possible to separate Uranium from a number of elements in Multicomponent mixtures. Method is very simple, rapid, and selective and has good reproducibility.

**Keywords:**Uranium (VI), poly-(dibenzo-18-crown-6) resin, Sorption capacity.

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