Separation of U(VI) and U(IV) chemical Species on the DGA- ,TEVA- and UTEVA Eichrom Resins.

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It was studied the distribution of some U(VI) and U(IV) chemical species in aqueous solutions , separatelly or in mixture, on 3 solid resins : N,N,N',N' –Tetrakis-2ethylhexyl- diglycolamide (DGA) , Trialkyl methylammonium nitrate (or chlorate) (TEVA) and Dipentyl pentylphosphonate (UTEVA). The concentrations of uranium species ,before and after elution from resins, were established spectrophotometrically. Using these concentration values, the distribution coefficients were accounted. By means of ir spectra the possible linkages of uranium species on the resins surfaces were determined . The U(VI) and U(IV) species were much better retained on the DGA and UTEVA resins as on TEVA .