

TBP萃取色层法分离超铀元素的研究

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摘要 <正> 在用堆照钚、钚靶生产超铀元素的化学流程中,首先要提取钚,接着进行超铀元素与镧系元素的分离。TBP萃取法可以实现这二个过程,简化提取超铀元素的化学流程。TBP萃取色层法可以分离钚与镧,也可用此法进行镧系元素与镧系元素的分离。我们在前文的基础上,研究了用含盐析剂的硝酸溶液为洗提液时TBP萃取色层法分离钚和镧、

关键词 [TBP](#) [萃取色层](#) [Pu](#) [Am](#) [Eu](#)

分类号

SEPARATION OF TRANSPLUTONIUM ELEMENTS BY TBP EXTRACTION CHROMATOGRAPHY

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Abstract Conditions for the separation of plutonium from transplutonium elements and transplutonium elements from lanthanides by TBP extraction chromatography are described. Investigation was made in the separation of americium from plutonium with an eluant of 2.0-7.0 mol/l HNO₃ solution in the presence or absence of Na and Al ions. The separation of americium from europium with an eluant of DTPA-LiNO₃ solution of various pH was also studied. Distribution ratios of americium between the column and the 0.025-0.1 mol/l HNO₃ solution containing Na and Al ions were determined. Separation for fission products was also studied.

Key words [TBP extraction chromatography](#) [Pu](#) [Am](#) [Eu](#).

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