用HDEHP萃淋树脂回收纯化~(252)Cf

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<正>一、前言~(252)Cf是目前应用较广泛的超钚元素之一。~(252)Cf通常可以从堆照镅、锔或钚靶中 提取,也可以从过期~(252)Cf自发裂变中子源中用离子交换法,HDEHP溶剂萃取法,或萃取色层法回收。自1974年关 于HDEHP萃淋树脂的研究报告发表以来,已经开展

Cf Cm TTHA HDEHP-萃淋树脂 关键词

分类号

RECOVERY AND PURIFICATION Of ~ (252)Cf BY HDEHP-L EVEXTREL CHROMATATOGRAPHY

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Abstract The distribution coefficients of Cf (Ⅲ), Cm (Ⅲ) and Eu(Ⅲ) in differentkinds of nitric a ▶本文作者相关文章 cid and TTHA solutions are determined. A HDEHP-Levextrelchromatography method is propos ed for the recovery and purification of Cf fromCm, Fe, Tb etc. Cf(III) is separated from Tb (III) with the TTHA eluate(pH3.8). The pH value of the eluate containing Cf and Cm is adjusted to 1.5. Then Cf as well as Cm is absorbed quantitatively from this solution. Finally, Cm and Cf are elu ted with 0.50 and 2.0 mol/l HNO_3 respectively. Fe can be deco-ntaminated well by this metho d. The microgram amount of 252 Cf is recovered and purified. The recovery of Cf reaches 95%.

TTHA HDEHP-Levextrel **Key words** Cf Cm

DOI

通讯作者

扩展功能

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