

高放废液中~(147)Pm的测定

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摘要 建立了高放废液中~(147)Pm的测定方法。用HDEHP萃取稀土,再用HDEHP萃淋树脂柱分离AM和稀土。然后用高效液相色谱法将~(147)Pm从Eu、Ce等其它稀土中分离出来,用液体闪烁法测量~(147)Pm的放射性活度。

关键词 [~\(147\)Pm](#) [高放废液](#)

分类号

DETERMINATION OF ~(147)Pm IN HIGH-LEVEL LIQUID WASTE

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Abstract Determination method of ~(147)Pm in high-level liquid waste is set up. The method is composed of extraction RE and Am and Cm from 0.1 mol/l HNO₃ aqueous solution containing sample with 0.5 mol/l HDEHP- η -heptane, reextraction with 5.5 mol/l HNO₃, subsequently chromatography with a column filled HDEHP-levextrel for separation of RE and Am and Cm when 0.07 mol/l DTPA-1 mol/l lactic acid(pH3. 12) is used as eluant and HPLC for separating ~(147)Pm from other rare earths when α -HIBA was used as eluant. The radioactivity of ~(147)Pm is measured by liquid scintillation counter.

Key words [~\(147\)Pm](#)[High level liquid waste.](#)

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扩展功能

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