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Author	白田, 重和(Usuda, Shigekazu) 吉川, 英樹(Yoshikawa, Hideki) 間柄, 正明(Magara, Masaaki) 初川, 雄一(Hatsukawa, Yuichi)
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Rapid Anion-Exchange Separation of Berkelium with Mineral Acid-Methyl Alcohol Mixtures*

Shigekazu USUDA**, Hideki YOSHIKAWA, Masaaki MAGARA**,
and Yuichi HATSUKAWA***

臼田重和**, 吉川英樹, 間柄正明**, 初川雄一***

Adsorption behaviour of Bk/III/ on anion-exchange resin in mineral acid-methyl alcohol mixtures has been investigated. Berkelium was successively separated with a HCl-CH₃OH mixture at elevated temperatures within 5 min from an Al catcher foil collecting the recoil products of the $^4\text{He} + ^{241}\text{Am}$ reaction. The counting source of Bk was immediately prepared for alpha- and X-ray spectrum measurements. Rapid separation of Bk from Ce was also performed by the use of a HNO₃-CH₃OH mixture.

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** 日本原子力研究所
*** 東京都立大学理学部