^{243}Bk

Thompson et al. reported the discovery of ^{243}Bk in the 1950 paper "Element 97" (1950Th55). A ^{241}Am target was bombarded with α particles from the Berkeley 60-in. cyclotron. Alpha-particle spectra were measured following chemical separation. "The particular isotope discovered is thought to be 97^{243}, or possibly 97^{244}, decaying with a 4.8-hour half-life by electron capture with approximately 0.1 percent alpha-decay branching." Two later measurements were only reported in Ph.D. theses (1953Hu60, 1956Ch77)

Adapted from reference (2013Fr02)

1950Th55 S. G. Thompson, A. Ghiorso, and G. T. Seaborg, Phys. Rev. **77**, 838 (1950).
1953Hu60 E. K. Hulet, Thesis, Univ. California (1953).
1956Ch77 A. Chetham-Strode Jr., Thesis, Univ. California (1956).
2013Fr02 C. Fry and M. Thoennessen, At. Data Nucl. Data Tables **99**, 96 (2013).

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