

¹⁴³Ba

Wahl et al. reported the first identification of ¹⁴³Ba in 1962 in the article “Nuclear-Charge Distribution in Low-Energy Fission” (1962Wa36). ¹⁴³Ba was produced from ²³⁵U fission induced by thermal neutrons. The neutrons were produced from reactions of 10 MeV deuterons accelerated by the Washington University cyclotron on a beryllium target. The half-life of ¹⁴³Ba was measured by timed separations of its daughters. “The half-life value of Ba¹⁴³ obtained was (12.0±1.2) sec.” Hahn and Strassmann had speculated about the existence of a short-lived barium isotope (< 0.5 m) (1942Ha06) which was tentatively assigned to ¹⁴³Ba by the Plutonium Project Records (1951CoZZ).

Adapted from reference (2010Sh20)

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