

¹²⁸Ba

Fink and Templeton identified ¹²⁸Ba in 1950 as described in “Radioactive Isotopes of Barium” (1950Fi11). Cesium chloride was bombarded with 85 MeV protons in the 184 inch Berkeley cyclotron. The induced barium activities were chemically separated and the half-life was measured with a Geiger counter: “The 2.4-day period is not ¹²⁷Ba, otherwise it would produce 5.5-hour ¹²⁷Cs as a daughter. The most probable assignment is ¹²⁸Ba from the p,6n reaction, but this assignment lacks direct proof.” Thomas and Wiig had measured a 2.4(1) d half-life in barium but they were only able to determine that the mass number was smaller than 129 (1950Th08).

Adapted from reference (2010Sh20)

- 1950Fi11 R. W. Fink and D. H. Templeton, J. Am. Chem. Soc. **72**, 2818 (1950).
1950Th08 C. C. Thomas and E. O. Wiig, J. Am. Chem. Soc. **72**, 2818 (1950).
2010Sh20 A. Shore, A. Fritsch, J. Q. Ginepro, M. Heim *et al.*, At. Data Nucl. Data Tables **96**, 749 (2010).

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