

¹⁰⁵Tc

The first observation of ¹⁰⁵Tc was reported by Flegenheimer et al. from the Laboratorios de Radioquímica de la Comisión Nacional de la Energía Atómica in Buenos Aires, Argentina, in the 1955 paper “Die kurzlebigen Molybdän- und Technetium-Isobare der Massenzahl 105” ([1955FI42](#)). Ammonium diuranate was irradiated with fast neutrons and subsequently chemically separated. The ¹⁰⁵Tc activity was indirectly determined by timed separation of ¹⁰⁵Ru. “Auf Grund mehrerer Versuchsreihen wurde für die Halbwertszeit des Tc-105 ein Wert von 10±1 Min. ermittelt.” [Based on several experiments a half-life of 10±1 min was extracted for ¹⁰⁵Tc.]

Adapted from reference ([2012Ny02](#))

[1955FI42](#) J. Flegenheimer, G. B. Baro, and A. Medina, *Z. Naturforsch.* **10**, 798 (1955).

[2012Ny02](#) A. Nystrom and M. Thoennessen, *At. Data Nucl. Data Tables* **98**, 95 (2012).

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