

¹⁹⁶At

Treytl and Valli identified ¹⁹⁶At in the 1967 article “Alpha decay of neutron deficient astatine isotopes” ([1967Tr06](#)). Enriched ¹⁸⁵Re and ¹⁸⁷Re targets were bombarded with 100-200 MeV ²⁰Ne beams from the Berkeley HILAC. Reaction products were collected on a silver foil by a helium jet and rotated in front of a Si(Au) surface barrier detector. “ASTATINE-196: In subsequent runs, an alpha peak at 7.055 MeV with a half-life of 0.3 sec was observed. The excitation function shown in [the figure] clearly follows that of ¹⁹⁶Po.”

Adapted from reference ([2013Fr09](#))

[1967Tr06](#) W. Treytl and K. Valli, Nucl. Phys. A **97**, 405 (1967).

[2013Fr09](#) C. Fry and M. Thoennessen, At. Data Nucl. Data Tables **99**, 497 (2013).

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