

²⁵⁵Fm

In the 1954 paper “Nuclear properties of some isotopes of californium, elements 99 and 100” Choppin et al. from Berkeley identified ²⁵⁵Fm (1954Ch23). Plutonium was irradiated with neutrons in the Materials Testing Reactor and α -decay spectra were measured following chemical separation. “Two alpha activities assigned to element 100 have been observed. The more abundant, probably due to ¹⁰⁰254, decays with a half-life of 3.2 hours by emission of 7.22 ± 0.03 -Mev alpha-particles, as previously reported. The other, probably due to ¹⁰⁰255, decays with a half-life of about 15 hours by emission of 7.1-Mev alpha particles.”

Adapted from reference (2013Th02)

1954Ch23 G. R. Choppin, S. G. Thompson, A. Ghiorso, and B. G. Harvey, Phys. Rev. **94**, 1080 (1954).

2013Th02 M. Thoennessen, At. Data Nucl. Data Tables **99**, 312 (2013).

Please cite this abstract as: “FRIB Nuclear Data Group, *Discovery of Nuclides Project*, Isotope Database, doi:[10.11578/frib/2279152](https://doi.org/10.11578/frib/2279152)”