

¹⁰⁷Sn

The first correct identification of ¹⁰⁷Sn was reported by Hseuh and Macias in the 1976 publication “Identification of 2.90-min ¹⁰⁷Sn and 50-sec ¹⁰⁷In^m” (1976Hs01). ¹⁰⁷Sn was produced by bombarding enriched ¹⁰⁵CdO with 30 MeV ³He from the Washington University cyclotron. “¹⁰⁷Sn and ¹⁰⁷In^m, produced in ³He bombardments of ¹⁰⁶Cd and transported with a He jet system, have been identified with Ge(Li) γ -ray detectors. Half-lives of these nuclides were determined to be 2.90±0.05 min and 50.4±0.6 sec, respectively.” A previously measured half-life of 1.3(3) m (1972Ri16) could not be confirmed. Also the energies of two γ -rays assigned to ¹⁰⁷Sn (1969Ya05) could not be reproduced.

Adapted from reference (2011Am01)

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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)”