^{107}Ru

Glendenin described the first observation of ^{107}Ru in "Short-Lived Ruthenium-Rhodium Decay Chains," which was published in 1951 as a part of the Plutonium Project Series (1950Gl06). Uranyl nitrate was irradiated with neutrons from the Clinton pile in Oak Ridge and ^{107}Ru was identified by measuring its activity following chemical separation. "The available mass numbers for the 4m Ru − 24m Rh chain are thus limited to 107, 108, and 110 or greater... On the basis of energy a mass assignment of 107 is highly probable." The 4m Ru − 24m Rh decay chain had been reported earlier without a mass assignment (1943Bo03).

Adapted from reference (2012Ny02)

1943Bo03 H. J. Born and W. Seelmann-Eggebert, Naturwissenschaften **31**, 420 (1943).

1950Gl06 L. E. Glendenin, Nat. Nucl. Ener. Ser. **9**, paper115 p. 849 (1950).

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

Please cite this abstract as: "FRIB Nuclear Data Group, *Discovery of Nuclides Project*, Isotope Database, doi:10.11578/frib/2279152"