^{156}Sm

^{156}Sm was reported as part of the Plutonium Project by Winsberg in 1951 in the article "Study of the fission chain 10h Sm$^{(156)}$ – 15.4d Eu$^{(156)}$" (1950Wi09). Uranyl nitrate was irradiated with neutrons at the Argonne Heavy-water Pile. Decay curves and absorption spectra were recorded following chemical separation. A mass assignment of 156 was made based on the smooth fission-yield−mass curve. "The fission yield of the ∼10h Sm, as determined from the decay curves (about 0.012 per cent), is approximately the same as the fission yield of the 15.4d Eu, thus establishing the following chain relationship: 10h Sm$^{(156)}$ →15.4d Eu$^{(156)}$ → stable Gd$^{(156)}$."

Adapted from reference (2013Ma01)

1950Wi09 L. Winsberg, Nat. Nucl. Ener. Ser. **9**, paper198 p. 1302 (1950).
2013Ma01 E. May and M. Thoennessen, At. Data Nucl. Data Tables **99**, 1 (2013).

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