^{163}Tb

In the 1966 paper "Der Zerfall von ^{162}Tb und ^{163}Tb" Funke et al. identified ^{163}Tb (1966Fu08). Dysprosium oxide enriched in ^{164}Dy was irradiated with the 27 MeV Jena betatron and ^{163}Tb was produced in the photonuclear (γ,p) reaction. Gamma- and beta-spectra were measured with Ge(Li) and scintillation detectors. "Aus dem Intensitätsabfall des integralen β- und γ-Spektrums sowie dem Abfall einzelner Linien wurde die Halbwertszeit von ^{163}Tb zu $T_{1/2}$ = 19.5±0.5 min bestimmt." [From the intensity decrease of the integral β- and γ- spectra as well as the decay of individual lines the half-life was determined to be 19.5±0.5 min.] Previously reported half-lives of 7(1) min (1960Wi10), 6.5(3) y (1960Al33), and 6.5 y (1962Ta12), were incorrect.

Adapted from reference (2013Ma01)

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