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Validation of neutron induced data up to 18 MeV for production of the therapeutic radionuclide 67Cu

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The radionuclide 67Cu can be produced via several routes. Initially the 67Zn(n,p)67Cu reaction was applied using a nuclear reactor. In a recent CRP of IAEA, the study of production of this radionuclide is in progress via the 67Zn(n,p)67Cu, 68Zn(p,2p)67Cu and 70Zn(p,α)67Cu reaction. In this work we have validated the neutron induced data for the production of 67Cu. The validation is based on integral test of the recommended data that were deduced from calculations done by using nuclear model codes STAPRE, EMPIRE, TALYS and ALICE-IPPE as well as by the statistical approach of fitting the experimental data.
Keywords: Radionuclides, Nuclear model calculations, Validation, Integral tests.

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