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Development of a fast radiochemical method for the Tc-99m production by Neutron Activation and its cost analysis

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The Tc99m is wide used in the world for SPECT diagnostic and its importance is great. In this scenario Italy isn't different and the lack of production for this isotope suggest to investigate other way to achieve the needs satisfaction. Starting from well known production method by activation, the Laboratory of Nuclear Energy Applied (LENA) of the University of Pavia have developed the method using Mo Oxide enriched in 98 isotope as target. The results consider also the analysis of the production cost.

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