

Xenon gamma-ray spectrometers for determination of radiation dose while carrying out neutron capture therapy

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Possibility of using xenon gamma-ray spectrometers for determination of radiation dose while carrying out neutron capture therapy is considered. A principal scheme of body burden measurement by means of a thermal neutron beam from RRT MEPhI is given. Main spectrometric characteristics of xenon gamma-ray spectrometers are presented. It is shown that those spectrometers provide efficient detection of gamma-rays, which arise under interaction of thermal neutrons with pharmaceutical preparations containing B and Gd nuclei.

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