MEASUREMENTS OF RADIUM CONTENT IN SOME SPRING WATERS FROM ROMANIA

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Abstract

Measurements of radium concentrations in water are important from the health protection point of view, so simple and reliable analytical methods must be available. In this paper we have determined the radium activity concentration in 24 spring waters which are used as potable water reservoirs. For this purpose we used radon emanation technique and also alpha spectrometry method. This work gives details of sample processing, Lucas cell and the methodology used in the emanation method. In the measured samples the radium concentration ranged from 15 to 2550 mBq/L.

Key words: alpha spectrometry, Lucas cell, Radium determination, radon emanation

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