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BOOK OF ABSTRACTS



NATURAL RADIONUCLIDES IN BOTTLED MINERAL WATER AT THE SERBIAN MARKET

**Branislava Mitrović¹, Jelena Ajtić¹, Borjana Vranješ¹,
Darko Sarvan¹, Velibor Andrić¹, Mirjana Stojanović²**

¹ Faculty of Veterinary Medicine, Belgrade, Serbia

² Institute for Technology of Nuclear and Other Mineral Raw Materials, Belgrade, Serbia

Natural radionuclides are present in mineral water as a result of geochemical processes that influence its final composition. The quality of mineral water varies and, apart from the natural disasters such as droughts and floods, it is also affected by industrial activities. The aim of our investigation is to determine the activity concentrations of ^{40}K , ^{238}U , ^{226}Ra and ^{232}Th in mineral waters available at the Serbian market. Nine samples of carbonated mineral water and five samples of non-carbonated natural spring water, collected during 2016, are analysed by standard gamma spectrometry. The maximum ^{40}K specific activity measured in the samples is 3.6 Bq/l, while the ^{238}U , ^{226}Ra and ^{232}Th specific activities are below minimal detectable activity. These results show that according to the national regulations, all samples are radiologically safe for human consumption.

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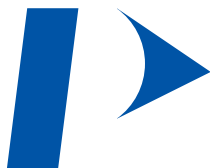
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