

INFLUENCE OF THE REVISION OF ČSN 75 7713 (2015) ON THE RESULTS OF ABIOSESTON DETERMINATION

PUMANN, P.

National Institute of Public Health

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It is shown in the article, how the revision of the Czech methodical standard for abioseston analysis in water ČSN 75 7713 from December 2015 and the lowering of the limit value for abioseston in the Decree No. 252/2004 Coll. (drinking water quality) from 10 to 5% influenced results of routine laboratories. The results of three rounds (from five) of the proficiency testing programmes organised annually between 2011 and 2020 by the National Institute of Public Health before the revision of ČSN 75 7713 were overestimated substantially in comparison with the abioseston results obtained by image analysis. There were not such overestimations within the rounds after the standard revision. The results of routine drinking water monitoring (stored in the IS PiVo database) from the period 2012–2019, when the original methodical standard was valid, were significantly higher than the results after revision. The statistically significant decrease of results higher than 5% in the period after the Decree No. 252/2004 Coll. amendment (0.07% of results higher than 5%) comparing the periods before the amendment, i.e., after the revision of the methodical standard (0.35%) and before this revision (0.92%).