AN ASSESSMENT OF THE PRESENCE OF AIRBORNE FUNGI, AMMONIA AND METHANE IN THE ATMOSPHERE IN A SELECTED STABLE

Key words: ammonia, fungi, methane, sanitary condition of the air, stable

Summary

The aim of present study was to analyse the occurrence of airborne fungi and some toxic and odor-forming gases (NH₃, CH₄) in the atmosphere of a selected livestock production building. The studies were located in milk farm building of the Experimental Station of the Institute of Technology and Life Sciences at Falenty. In experimental object 10 test points were chosen. Air samples were introduced onto Petri dishes with Martin agar using Merck’s MASS 100 ECO sampler. The cultures were incubated at a temperature of 28°C. The concentration of gases in the air were tested using Anova fotoacoustic apparatus and Q-Ray IR gas analyser.

Microbiological analysis of air of investigated building showed that the density of mycoaerosol depends on the date of sample collection, air temperature and location of sampling point. Results of analyses of the amount of ammonia and methane showed small amounts of these gases in the air.