

Microbiological air contamination in animal-origin waste processing plants

Summary

The aim of this study was to analyze microbial pollution and composition of the air in the meat waste processing plant. The analysis was carried out 3 times. Air samples for microbiological analysis were collected in 4 control points in plant area: in “dirty sector” – in sectional hall, in “clean” sector – destructors’ hall and product magazine, and outside the object, i.e., 100 m from the edge of the site. The study showed a relatively high air microbial contamination of facility and its surroundings. In composition of the microbial species there were detected Gram-positive bacteria, including staphylococci and streptococci, Gram-negative bacteria and coryneforms. Among the mold fungi, the presence of the genus *Penicillium*, *Aspergillus*, *Fusarium*, *Acremonium*, *Ulocladium*, *Botryotrichum* and *Cladosporium* was identified.

KEY WORDS: utilization plants, animal waste, microbiological contamination