

STUDY ON MICROBIOLOGICAL ANALYSIS OF FEED MILL PROCESSING ENVIRONMENT

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Abstract

The aim of the control of pathogens in feed is to ensure that they are under a critical threshold to minimize the risk to human and animal health. In the production of compound feed, contamination with undesirable substances may occur, which may come from the environment and/or the production process. The aim of the work is to determine the contamination with yeasts and molds of the surfaces of the raw material storage silos of a feed mill in Romania. Sampling to determine yeast and mold contamination were taken from different points of the silos, for a higher accuracy of the results, namely walls, floors, sweep auger, access cover. During 2019 and 2020, 72 samples respectively 48 samples were taken and analyzed to determine the contamination with yeasts and molds. The results of microbiological analyzes performed in the feed mill studied, showed that all 70 (97.2 %) respectively 36 (100%) samples were positive. Microbiological control of feed mill processing environment must be considered relevant due to the demands of consumers for food safety all over the food chain; introduction of an appropriate system for monitoring and analyzing microbiological contaminants can contribute to the control and prevention of contamination.

Key words: feed safety, yeasts and molds, compound feed