

The evaluation of chemical additives supplementation in ensiling of wilted alfalfa

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The experimental material was 3rd cut of alfalfa, high wilted to the concentration of dry matter about 56%. Alfalfa was ensiled on a laboratory scale, in 3,5 l microsiloses without any additive (control group), or with the chemical additive Neubacid-Sil P Liquid (basic compounds: formic and lactic acid) and with the chemical preservative Neubacid-Sil C Liquid (basic compounds: propionic and formic acid). Both preservatives were added at dose of 0,3%. In silages, the quality markers (VFA, pH, N-NH₃), basic chemical composition, as well as NDF and ADF were determined. Moreover, the dry matter and crude protein losses during ensiling process, aerobic stability and quality of haylages after aeration were evaluated. On the basis of obtained results, it could be stated that the additive with formic and lactic acid at dose 0,3% can be recommended for ensiling of high wilted alfalfa. Addition of this preservative improved quality and chemical composition of alfalfa haylage, decreased dry matter and protein losses during ensiling process, but had no effect on aerobic stability. Apart from that the effectiveness of preservative with propionic and formic acid at dose of 0,3% in ensiling of alfalfa haylage was also demonstrated. The alfalfa haylage with this additive was characterized by better quality and chemical composition, lower dry matter and protein losses during ensiling process, as well as by higher aerobic stability in comparison with alfalfa haylage without additive.