FEEDING OF GOATS UNDER CONDITIONS OF ORGANIC FARMING

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Summary. The research was carried out in one of the biggest organic goats farm of Latvia "Līcīši". A total of 30 goats were used in feeding trial to determine the effect of Fodder yeast and Yeast culture Yea-Sacc^{1026} on goats milk yield and in milk composition in 2002 and 2003.

Adding of Fodder yeast and Yeast culture Yea-Sacc^{1026} in ration did not affect goat milk yield, but in organic farm for optimization of protein it is possible to include Fodder yeast in ration. To increase feed intake we recommend use Yeast culture Yea-Sacc^{1026} in organic goat farm. Milk fat content increased for 0.43% by using of Yeast culture Yea-Sacc^{1026} in ration, but content of protein in milk were increased by both – Fodder yeast and Yeast culture Yea-Sacc^{1026}. The research results showed that the biggest effect of these additives was the improving of unspecific resistance indicators in goat's milk. The highest increasing of lysozymes in milk was monitored under the influence of Fodder yeast: 2.5 times more comparing to control group. The highest increasing of CIK was monitored after using of Yeast culture Yea-Sacc^{1026} : 2 times more in comparison with the control group. Also the using of both feed additives allowed obtaining goat milk with decreased content of cholesterol. Including of fodder yeast in feed ration decreased content of milk urea by 7.2%, but most significant decrease in comparison with control group by 19.8 % was found in the 3rd trial group, where Yea-Sacc^{1026} was fed.

Keywords: goats, feeding, milk composition, milk urea.