

INFLUENCE OF COMPOSITION OF PROBIOTICS AND PHITOBOTICS ON HEIFERS GROWN FOR THE BREED

Česlovas Jukna, Vigilijus Jukna, Almantas Šimkus

Lietuvos veterinarijos akademija, Tilžės g. 18; LT – 47181 Kaunas; el. paštas: jukna@lva.lt; vjukna@lva.lt; almantas@lva.lt

Summary. Two groups of 8 Lithuanian-White heifers in each were performed at the center of Practical training and experiments of Lithuanian Veterinary Academy at 30 days of age. All heifers were fed by the growing scheme what was used at the centre; probiotics were mixed into the forage for the test heifers: 1 kg/t of probiotics YEASTURE and MICROBOND and 250 g/t of phitobiotics JUCCA. The results showed that composition of probiotics YEASTURE, MICROBOND and phitobiotics JUCCA activates the growth speed of Lthuanian-White heifers at 30-180 days of age. An average overweight of heifers from the test group during experiment was 15.6 percent higher than from analogues of the control group ($p>0.05$). The composition of probiotics determined less input of forage for 13.4 percent for one unit of overweight ($p>0.05$). The main amount of bacteria increased 1.8 times ($p<0.025$), amount of lactates fermenting bacteria increased 2.5 times and amount of cellulolitae bacteria increased 2.5 times ($p>0.001$) at heifers' rumen on an influence of this composition. Haematological analysis of heifers' blood showed that morphological and biochemical indexes matches physiological rules and characterizes good wellness of all heifers.

Keywords: calves, heifers, probiotics, phitobiotics, rumen, weight gain.