

THE EFFECT OF THE PROBIOTIC *LACTOBACILLUS REUTERI* ON THE NONSPECIFIC RESISTANCE AND PRODUCTIVITY OF PIGLETS AFTER WEANING

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- The strains *Lactobacillus reuteri* 395 and *Lactobacillus reuteri* 298 were used in the research. The strains were isolated from the intestines of healthy calves, identified by 16S RNA, and deposited in the RNCM.
- The strains have high antagonistic activity against opportunistic microorganisms of the gastrointestinal tract, are resistant to a wide range of antibiotics, and are safe for warm-blooded animals

Scheme of the experiment



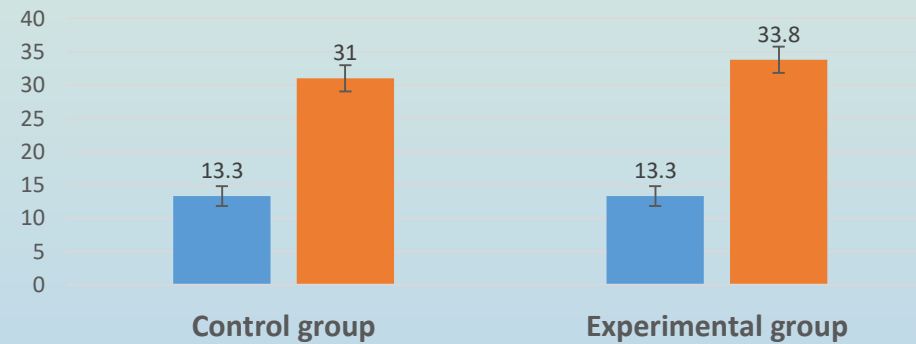
10 crossbred piglets in a group at 45 days of age
immediately after weaning
(♂ Danish Yorkshire × ♀ Danish Landrace)

basic diet
(full-fledged compound feed
SCC-51)

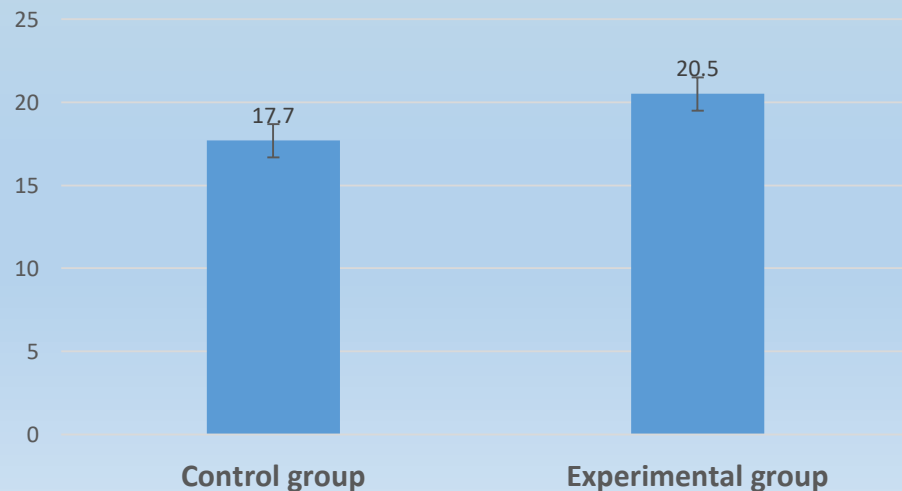
basic diet
+
L. reuteri 238, *L. reuteri* 395
1 g/head
CFU in 1 g was 10^{10}

Zootechnical indicators of piglets (n=10)

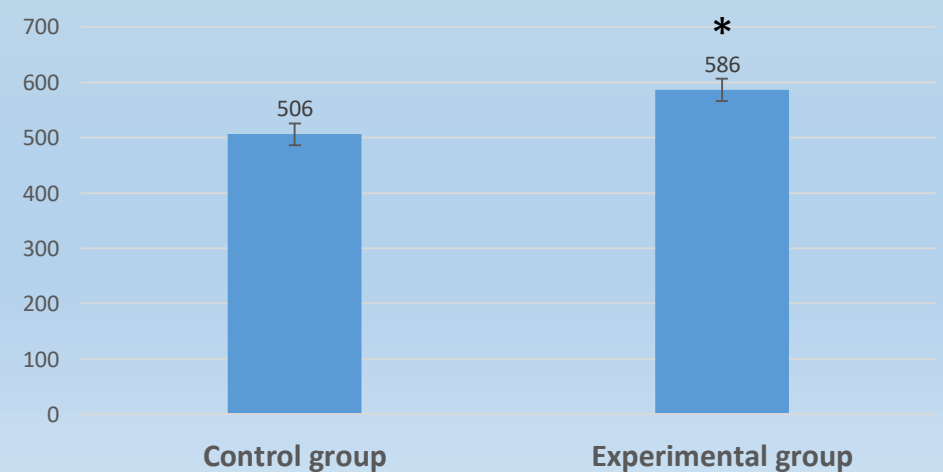
Live weight of piglets, kg



Live weight gain, kg

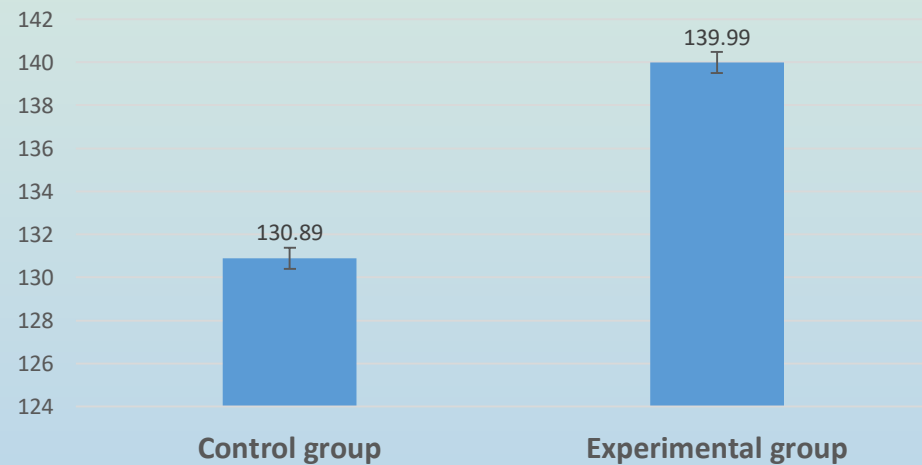


Average daily gain, g

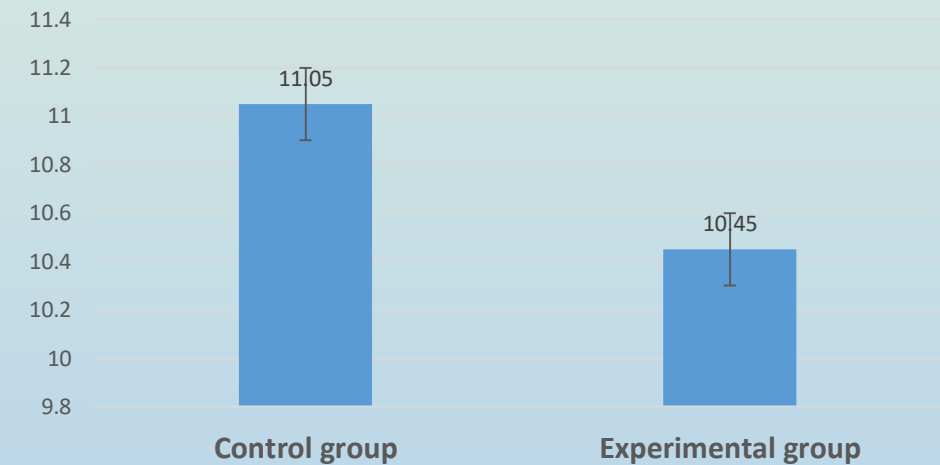


Hematological parameters of piglets (n=10)

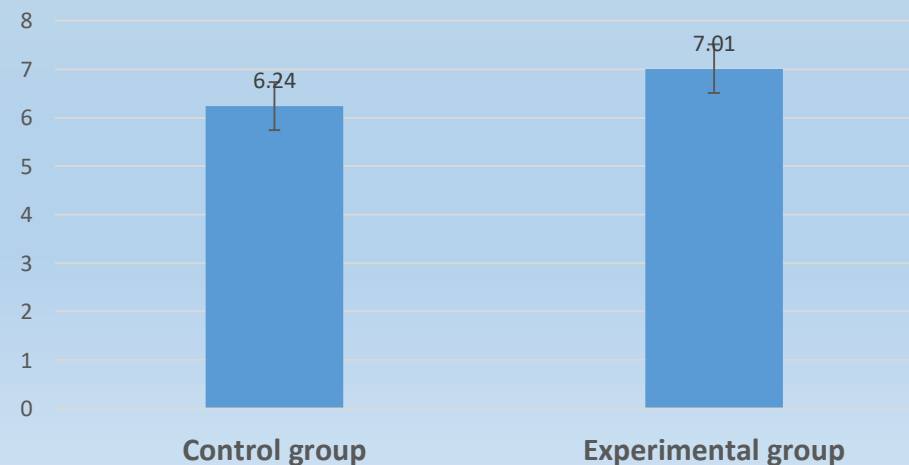
Hemoglobin, g / l



White blood cell count, $10^9/l$

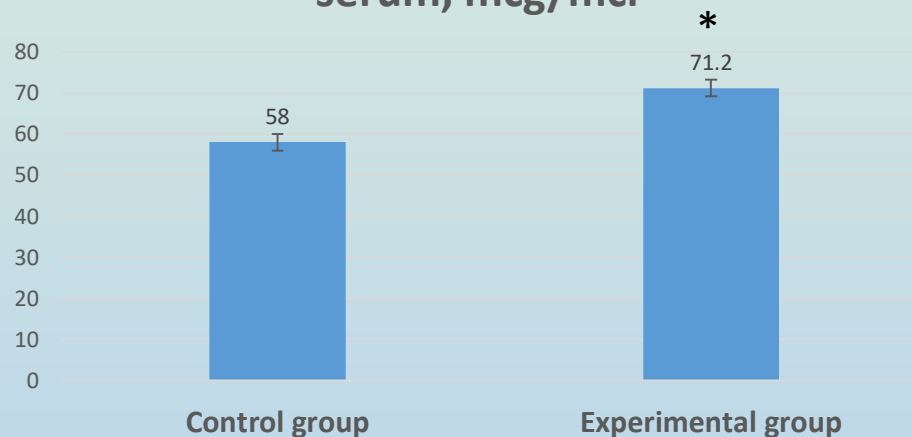


Red blood cell count, $10^{12}/l$

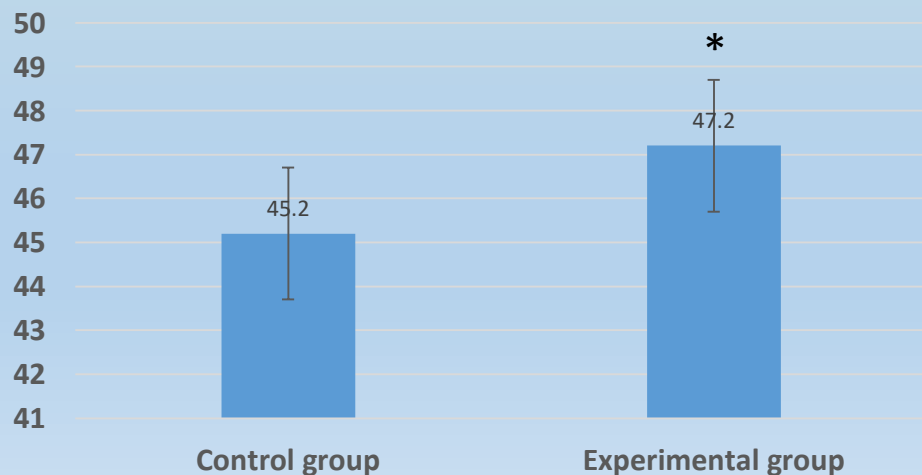


Indicators of nonspecific resistance of piglets (n=10)

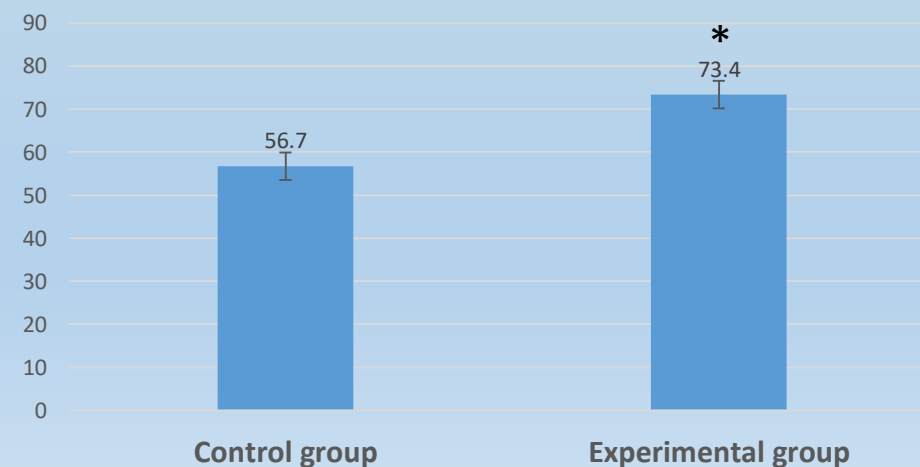
The content of lysozyme in the blood serum, mcg/mcl



Phagocytic activity, %



Blood serum bactericidal activity, %



Conclusion

- Thus, the use of probiotics in the postweaning period helps to increase the nonspecific resistance and productivity of piglets and can be recommended for use in pig farms

Thank you for your attention!