Efficiency of using the substitute for fish meal- Ekofish Meal in the nutrition of piglets after the weaning

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In the paper are showed the results of the researching of the efficiency of using the substitute for fish meal- EKOFISH MEAL in the nutrition of piglets after the weaning. Researching is made on two groups (Control and Experimental group) from 60 piglets on the pig farm «Doža Derđ», Bačka Topola. Control group was fed with standard mixture, which is in the months before used on the farm (without addition the fish meal) and Experimental group was fed with mixture with addition the substitute for fish meal. Average daily gain of the Experimental group was bigger in the relation to Control group for 34g or 15.31%. Fortified differences in the gain were statistically important (P<0.05). Utilization of the mixture for 1 kg of gain was less in Experimental group for 0.28 kg or 12.90%. Spends of the nutrition according 1 kg of the gain was less in Experimental group for 4.88 din or 8.93%. Health of the piglets in the both groups was similar and usually for the category of piglets after weaning. Results that are obtained show that using the substitution for fish meal - EKOFISH MEAL in the mixtures for feed the piglets after the weaning has its proof from nutritive, physiological and from economical point of view.

Material and work method

Research is made on two groups from 60 piglets in 37 days, March-May 2006 on the pig Farm "Doza Djerdj" in Backa Topola. The piglets were half-breeds F1 generation between Yorkshire (father) and Landrase (mother).

After the weaning, with 28 days old, the piglets were separated into two goups, Control and Experimental. Control group is feeded with standard mixture which is used at the farm months before (without addition of fish meal) and Experimental group is feeded with mixture with addition of replacement for fish meal – **EKOFISH MEAL**.

Replacement for the fish meal – **EKOFISH MEAL** is produced in Company

"Bankom" Belgrade, Factory of oils and proteins "Bioprotein", Obrenovac. Product

is made by domestic feed well known origin and verified quality, (genetic non modified and thermo prepared meal from peeled grain of soya, isolate protein of soya, gluten, feed yeast with mineral additives, amino acids, vitamins, enzymes, and other additives). The product is best for feeding piglets, poultry, calves, lambs, kids and productively livestock.

Research results and discussion

Research results concerning body-weight course, growth, consummation, feed utilization, and costs of the nutrition is given in table.

Average daily gain of the Experimental group was bigger in relation to Control group for 34 g or 15,31%. Fortified differences in the gain were statistically important (P<0.05). Reason for slightly lower growth in both groups is that experiment covered period of first 37 days after weaning, and for it was fulfilled in somewhat unfavorable ambient due to overpopulation of the object.

Mixture consummation was alike in both groups, that is, for only 4 grams/day (or 0,83%) bigger for Experimental group of piglets. Reason or causer of higher efficiency in Experimental group is, indeed, consequent to better balance and higher biological value. Great contributors for enhancing feed are high-quality

components included in mixture trough the herbal fish meal replacement EKOFISH MEAL (genetically non modified thermally treated flour of the pilled soybean, soybean protein isolate, gluten, yeast ant the other additives).

Spends of the nutrition was insignificantly bigger in Experimental group (for only 0,65 Din or 5%), but utilization of the mixture for 1 kilogram of gain was less in Experimental group for 4,88 Din or 8,93%.

Research results of herbal fish meal replacement EKOFISH MEAL usage in the nutrition of piglets

Index	Control group	Experimental group	Index Control=100
Body weight, beginning of the experiment, kg	6,83	6,67	97,66
Daily growth, kg	0,222	0,256	115,31



Mixture consummation, kg/day	0,481	0,485	100,83
Conversion, mixture/growth, kg	2,17	1,89	87,10
Mixture cost, din/kg	25,17	26,32	104,57
Meal cost, din	12,11	12,76	105,37
Nutritive expenses per kg of the growth, din.	54,62	49,74	91,06

Health of the piglets in both groups was similar and usually for the category of piglets after weaning.

Conclusion

It is tested the efficiency of using the substitute for fish meal- EKOFISH MEAL in the nutrition of piglets after the weaning.

- Average daily gain of the Experimental group was bigger in the relation to Control group for 34g or 15.31% (P<0,05).
- Utilization of the mixture for 1 kg of gain was less in Experimental group for 0.28 kg or 12.90%.
- Spends of the nutrition according 1 kg of the gain was less in Experimental group for 4.88 din or 8.93%.
- Health of the piglets in the both groups was similar and usually for the category of piglets after weaning.

The results which are made shows that using the substitution for fish meal - **EKOFISH MEAL** in the mixtures for feed the piglets after the weaning has its proof like nutritive, physiology and from economy point of view.

