Food Mineral Supplement in Heavy Breed Chickens Raised in Organic System

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SUMMARY

EU market can provide the marketing of important quantities of organic foodstuff that have as source poultry. In this circumstances, we proposed ourselves to bring forward a design and estimate three patterns of 3% mineral mixture, so we can meet the most important mineral requirements of meat chickens, from organic farms. During the experiment there were used 150 heavy breed chickens, set in three equal groups (V1, V2, V3). On the first six weeks, chickens were fed with a mix feed of 3003 kcal ME, 19.8% CP, and on the last six weeks they had a 2981 kcal ME and 16.03% CP. PM1, from organic source provided macroelements at the following levels: 0.91% calcium, 0.2% phosphorus and 0.3% salt. PM2 had with the same levels of macroelements but reduced doses of about 50%, regarding Fe, Mn, Zn and Cu versus group V3. PM3 had the following supplement levels: 0.91% Ca, 0.2% P, 0.3% salt and microelements, formulated in mg/kg AC: 20.08 Fe, 21.18 Mn, 15.32 Zn, 3.19 Cu, to which is added 0.23 Co, 0.17 I şi 0.10 Se as for the V2 group. Chickens from group V3 ingested the biggest quantity of feed mixture, 5549.43 g respectively. The ones from V2 had on intake of 5430.5 g. The body weight progress of the chickens shows that the ones from group V1, registered 1379.4±58.5 g and the ones from V2 registered a 14.19%, higher than the ones from the V1; and V3 were heavier than V1 with 19.47%. The differences between the three groups (V1, V2, V3) are statistical significant (p<0.05), and between V2 and V3 there are no significant differences. The variability coefficient was between 14.69% (V2) and 18.96% (V1). The conversion index was as it follows: V3 with 3.37 kg feed mixture (FM)/kg live weight, with 5.33%, reduced than the V1, and the V2 group were situated on the second place with 3.45 kg FM/kg live weight, with 3.09% reduced versus group V1. The researches carried out confirm a feed supplementation requirement in macro- and micro-elements, in order to provide superior efficient values, even in the organic raising systems for the heavy breed chickens.

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REFERENCES
