

## EVALUATION OF THE DIGESTIBILITY OF FEED CONTAINING PROTEIN-VITAMIN-MINERAL MIXTURE P3A

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**Summary.** Investigation of the digestibility of layer feed with protein-vitamin-mineral mixture P3a (prepared by Lithuanian and French JSC “Ukmergės biofabrikas”) was carried out. Layers from control group were fed with feed balanced according to metabolic energy and crude protein in accordance with the norms for demand of nutritional substances, valid in EU. Layers from trial group were fed with the same feed as in control group, but 10 % of feed were replaced with protein-vitamin-mineral mixture (PVMM) P3a, maintaining the same amount of energy and crude protein. Digestibility of feed nutritional substances was determined by means of indicator method using titanium dioxide. It was established that addition of PVMM P3a into feed has influence on the digestibility of organic substances and crude protein. The organic substances were digested in 8.8 % better ( $P<0.05$ ), and crude protein in 9.8 % better ( $P<0.05$ ) than in layers from control group. The addition of PVMM P3a into feed did not have influence on the digestibility of crude fat and crude fibre.

**Keywords:** layers, nutritional substances, indicator method, titanium dioxide, digestibility.