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## Use of computer assisted mathematical simulation to assess the nutritive value of new Romanian pea cultivars used in broiler chickens feeding

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### SUMMARY

The nutritive value and efficiency of energy and protein utilization was assessed for two, high protein Romanian pea cultivars (Diana and Vedeia), in an experiment on Rock cockerels. The experiments of energy and protein balance were conducted on 4 groups (2 groups for each of the two cultivars) × 20 birds each, with 10 and 20% level of inclusion of each pea cultivar in a standard diet. The corrected metabolisable energy (MEc) was calculated with the formula of Whittemore (1983) adapted for poultry (Burlacu, 1996). The digestible energy (DE), available protein (AP), retention protein (Pr), deaminated protein (DP), urine energy (UE) and deamination energy (dE) were also determined. The nutritive value (by kg DM) was 12.25 MJ MEc and 250 g digestible crude protein for Diana cultivar and 12.30 MJ MEc and 255 g digestible crude protein for Vedeia cultivar. Key words: nutritive value, peas, Rock cockerels.

Keywords: poultry, diets, peas, feeding value, energy and protein utilization