

Immune Activity of Roman Hens as Influenced by the Feed Formulated with Germinated Paddy Rice

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Abstract : Germinated paddy rice (GPR) has the potential to be used as a feed ingredient. However, their properties have not been fully investigated. This paper examined the nutrient digestibility and the relationship to immune activity in Roman hens fed with GPR. It was found that true and apparent metabolizable energy (ME) values of GPR were 3.20 and 3.28 kcal/g air dry, respectively. GPR exhibited high content of phytonutrients, especially GABA. GPR showed similar protein profiles in comparison to non-germinated paddy rice. For immune activity, the feed with GPR enhanced the immune activity of Roman hens under high stocking density stress as evidenced by the activity of superoxide dismutase (SOD) and lysozyme activity. In this study, GPR is proved to be a good source of functional ingredient for chicken feed.

Keywords : germinated paddy rice, nutrient digestibility, immune activity, functional property

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