CRUDE PROTEIN DIGESTIBILITY VALUE OF COMPLETE FEED IN RAT (Rattus norvegicus)

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ABSTRACT

The aim of this research was to determine the digestibility value of crude protein complete feed in rat (Rattus norvegicus). Twenty eight male rats at starter phase were divided into four groups of treatments. Treatments were used control feed as a control treatment, complete feed P1 (15.0125% crude protein content), complete feed P2 (19.3393% crude protein content), and complete feed P3 (22.9122% crude protein content) with different formula in four weeks. Marcam Steel method was used for protein analysis. Result of research showed that there was significant differences (p<0.05) among control feed, complete feed P2 (19.3393% crude protein content), and complete feed P3 (22.9122% crude protein content) to complete feed P1 (15.0125% crude protein content). Crude protein digestibility was lower when the crude protein content in complete feed only 15.0125%. However, when crude protein content in the complete feed around 18.9667% to 22.9122% the crude protein digestibility were increased. Rat complete feed P2 with 18.9667% protein content can be used as alternative feed for rat.

Key words: complete feed, crude protein digestibility, Rattus norvegicus.