

Yield of pig offals and their nutritive value after the rendering process

Approximately 73% of edible meat and 27% inedible offals could be generated in the process of pig slaughtering. Pig offals are generally used as an alternative feed ingredient in pig rations due to escalating cost and scarcity of concentrate feeds. Therefore, objectives of the present study were to examine the amount of offals, blood, bone and skin generated at slaughtering of 30 cross bred pigs (landrace * large white) under 3 weight categories. (60-79 kg, 80-99 kg, 100-119 kg)The dry matter (DM), crude protein (CP), crude fiber (CF), ether extract (EE), nitrogen free extracts (NFE) and gross energy of ground offal meal (T1) were compared with 3 other commercially used alternative rations.(offal meal : rice polish (T2) (2:1), market return sausage : rice polish (T3) (1:1) and chicken offals : rice polish: broken rice (T4) (2:1:1)).

The highest dressing percentage was obtained for the pigs in 100-119 kg weight category. While the lowest value was obtained for the pigs in 60-79kg category. The weights of various offals are intestine with gut content 15 kg, blood 3.5 kg, brain 0.18 kg, skin 5.5 kg, tail 0.2 kg, lungs with trachea 2.0 kg and ears 0.75 kg in 100kg of live pigs.T3 ration had a significantly higher ($P<0.05$) dry matter content (43.19.0.93) as compared with T1,T2, and T4 rations.(34.34.1.88, 37.04.1.85 and 32.91.1.5) T1 ration had significantly higher ($p<0.05$) CP content (39.00.3.00) than that of T2,T3 and T4 rations. The lowest CP of 19.04.0.69 was obtained in ration T4. CF and EE values were significantly different ($p<0.05$) in all four rations, both CF and EE values were highest (9.23.0.93 and 33.23.1.77) in ration T2. The lowest CF value (4.84.0.84) was observed in ration T3 and (17.71.0.71) T4 ration had the lowest EE value. The highest gross energy (5.089.0.32 kcal/g) was observed in T2 ration and the lowest was observed (4.0.0.47 kcal/g) in T4 ration.

The results suggests that ground rendered offal meal has a higher nutritive value as compared with other commercially used offal meals. Therefore, it is concluded that, offal meal could be used as an alternative in pig feeds by adding low energy supplements such as rice polish.