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Title: **LIPID AND MINERAL PROFILE OF BLACK BENGAL BREED AND ITS CROSSES**

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Abstract: The experimental animals of 10 to 12 months of age, having about 10- 12 kg body weights were selected. Blood sample was collected aseptically from the jugular vein of the experimental animals. To collect the serum, blood was collected without anticoagulant and allow to clot at room temperature by placing the tube in slanting position. The clear supernatant serum was poured off into vial along the side of the tube, serum was refrigerated until analysed. The genetic make up and environmental effect differentiate the different breeds of goat. It is expressed by the synthesis and degradation through metabolism of different substrate and exchange of metabolites. The study on these metabolites and as well as minerals were under taken to compare variation as well as breeds characteristics of Black Bengal (BB) and its crosses, Black Bengal X Beetal (BTB), Black Bengal X Sirohi (BS). Blood samples were collected from experimental animals from three groups i.e. Gr. I (BB), Gr. II (BTB) and Gr. III (BS) from jugular vein. Serum was obtained and stored till analysis was overed. Among the biochemical constituents total serum lipid was appeared to be higher (2.974 ± 1.1448) gL⁻¹ in BTB followed by BB and BS. Such variation might be due to less water retention in muscle as the amount of water in lean meat is greater than fat meat. Total fatty acids content in serum were found to be more in BB (0.1358 ± 0.0129) mL⁻¹ with respect to BTB and BS. It might be due to variation in lipid metabolism in which these molecules are utilized for energy purpose in ruminants. Total serum cholesterol reveal no significant difference among three genetic group. 2 Glycerides appears to be significantly low ($p < 0.01$) in BB (0.123 ± 0.006) mL⁻¹ as compared to BTB and BS such finding affects the fat deposition in the body tissues as confirmed by indicating esterification with free fatty acids. Like cholesterol, total serum phospholipid did not showed variation, which are mainly associated as a structural lipid. Sodium and potassium level in serum of BB and its crosses (BTB and BS) were not found significant different. However, potassium level were found to be low as compared to sodium among all crosses (BTB, BS and BB). Based on the present findings, Black Bengal and its crosses can be characterized biochemically as per neutral lipids specially fatty acids and glycerides. Serum mineral specially sodium and potassium level can not be used for characterization biochemically. The detail biochemical characterization of fatty acids and glycerides specially from muscles are suggested for future studies in these species, which may be useful for meat quality.

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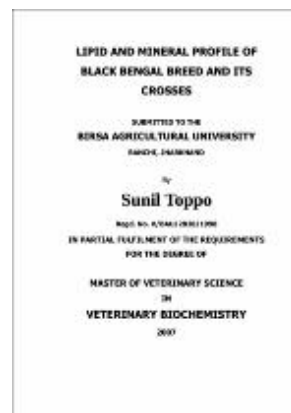
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