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Comparison of *in situ* nylon bag technique with *in vitro* procedure to estimate dry matter and other nutrients digestibility in buffalo calves

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ABSTRACT: Three male murral buffalo calves were taken for entire investigation. The average digestibility co-efficient for dry matter, crude protein, ether extract, crude fibre, nitrogen-free extract, total carbohydrates, total ash, acid detergent fibre and $neutral\ detergent\ fibre\ were\ 53.05\pm11.05, 54.50\pm0.90, 52.59\pm11.14, 53.54\pm1.09, 53.38\pm1.04, 53.38\pm1.08, 32.08\pm2.04, 52.82\pm1.60$ and 60.06 ± 1.19 at 72 hours, respectively by in situ nylon bag technique. The average digestibility of above mentioned feed nutrients were recorded to be $52.19 \pm 1.03\%$, $53.09 \pm 1.04\%$, $51.39 \pm 1.09\%$, $52.41 \pm 1.07\%$, $52.56 \pm 0.99\%$, 52.43 ± 1.06 , $31.61 \pm 1.90\%$, $51.88 \pm 1.07\%$ and $59.09 \pm 1.17\%$ at 72 hours, respectively by *in vitro* procedure. The dry matter, crude protein and ether extract digestibility estimated by in situ nylon bag technique were significantly higher (P < 0.01) than the value estimated by in vitro procedure. The crude fibre, nitrogen-free extract, total carbohydrates, total ash and neutral detergent fibre digestibility values obtained by in situ nylon bag technique vs. in vitro procedure did not differ significantly. The acid detergent fibre digestibility was statistically significant (P < 0.05) in in situ nylon bag technique than in vitro procedure.

KEY WORDS: Comparison, Nylon bag, *In vitro*, Digestibility, Dry matter

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