

## Effect of Polyherbal Formulations on Ruminal digestion in Goat

Handekar P.B<sup>1</sup>, Kolte A.Y<sup>1</sup>, Mendhe H.C<sup>1</sup>, Puri R.M<sup>1</sup>, Ravikanth, K<sup>2</sup>, Maini S\*<sup>2</sup> and Rekhe D.S<sup>2</sup>

1- Department of Veterinary Clinical Medicine, Ethics and Jurisprudence, PGIVAS, Akola

2- R&D team Ayurved Ltd Baddi (HP)

\* Corresponding Author e-mail: [shivi@ayurved.in](mailto:shivi@ayurved.in)

### Abstract

Rumen ecology plays vital role in the digestion, absorption and assimilation of ingesta in cattle. Digestive disorders in cattle directly affects the economics of dairy farm due to impact on production, hence the present study was planned to evaluate efficacy of herbal rumen ecology modulator AV/RMF/17 and Ruchamax on rumen liquor profile in goats. Total healthy twenty-one female goats were selected and divided randomly into three equal groups. Group (T1) was untreated control while, group T2 & T3 were supplemented with herbal Rumen modulator (AV/RMF/17) and Ruchamax (M/s Ayurved Ltd. Baddi, HP) @ 1.5 kg/ tone of feed and 1 kg/ tone of feed for 45 days respectively. Physical, biochemical examination of rumen liquor and growth parameters were evaluated. Among physical properties colour, consistency and odour recorded on 0 day observed which was observed to be greenish brown with watery consistency while odour was slightly amonical, which changes to greenish brown with viscous consistency and aromatic odour in T2 and T3 group within 7th day post treatment. Biochemical examination of rumen liquor reveals significantly decreased pH, TTA, TVFA and lactic acid in control group which were significantly increased in T2 and T3 groups in post treatment period as compared to control. Growth parameters viz. body weight gain, feed consumption and FCR were also improved as compared to untreated control. From overall observation indicated that animal treated with AV/RMF/17 and Ruchamax therapies showed better results on physical, biochemical examination of rumen liquor and improvement in performance parameters indicates normalization of rumen microflora.

**Key words:** AV/RMF/17, Ruchamax, Goat, Rumen liquor, Microbial, FCR