CONCLUSION

The addition with yeasts culture and enzymes in supplemented diet containing PKC did not show any adverse effect on dry matter intake, digestibility, rumen pH, NH$_3$-N and BUN. Yeasts culture supplementation diets increased Total Volatile Fatty Acids, propionate, acetate acid production and reduced proportion acetic propionic ratio. Meanwhile addition of enzyme in the diets has no significant affect on the concentration of total VFA in ruminal fluid, molar proportions of propionate and acetate. Depressed ruminal protozoal number and heightened ruminal total viable bacterial number were entailed by additional yeasts culture. There were no significant differences between the types of supplemented preparation of yeasts culture and enzymes effect on improved rumen fermentation and digestibility of nutrients.

RECOMMENDATION

It is recommended to supplement yeast culture and enzymes to goat rations as feed additives. Feed additives can be used to manipulate rumen function, increase the level and efficiency of animal performance, and minimize adverse effects of diets on animal health and the environment. Further research should be conducted to determine the efficiency of the feed additives in different physiological animal status and stage of animal production especially during weaning and transition period.