7. CONCLUSION

Based on these research results, there could be drawn several points:

1. The PUFA- concentrate with a mixture of 0.5% yeast and 2% C. xanthorrhiza Roxb could be stored up to 6 weeks with relatively stable nutrient contents of ether extract, crude protein, gross energy, NDF, Ca, P, tannin, and curcumin as well as PUFA contents.

2. The PUFA- diet with a mixture of 0.5% yeast and 2% C. xanthorrhiza Roxb could be considered as a potential one as it showed low protozoa population and high VFA production in the goat rumen fluid, *in vitro*.

3. The PUFA- diet with a mixture of 0.5% yeast and 2% C. xanthorrhiza Roxb was considered reasonable since it showed a better recovery in milk yield in post treatment with progressing lactation in dairy goat. Besides, it showed some tendencies of lower milk fat, 4% FCM, and SCC; higher lactose and Ca percentages; higher Hb, PCV, and glucose in blood; higher ether extract intakes and Ca digestibility, supported by relatively high nutrient digestibility in most nutrients.

4. The PUFA- diet with a mixture of 0.5% yeast and 2% C. xanthorrhiza Roxb high in total fatty acid, medium chain fatty acid (MCFA), long chain fatty acid (LCFA), and PUFA. Milk fatty acid quality of goat fed with this diet showed high in LCFA and MUFA; while it was low in SCFA, unsaturated fatty acid, and n6/n3 ratio, and atherogenicity index.