

## Branched Chain Volatile Fatty Acids Profile of Rumen Fluids Supplemented by Different Meal Protein Sources and Protein-Energy Synchronization Index

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<b>Abstract</b>	The aim of this study is to examine the interaction between the meal protein source with the protein-energy synchronization index (PES) in the dairy ration on the profile of branched chain volatile fatty acids (BCVFA). The study was carried out in vitro, using factorial completely randomized design (CRD-Factorial). The first factor was 2 types of meal protein source (soybean meal and coconut meal) and the second factor was 3 levels of PES index ( 0.5, 0.6, and 0.7), there were 6 treatment combinations, each treatment was repeated 4 times. The results of the study showed that the interaction between the meal protein source and the PES index was not significantly affected ( $P > 0.05$ ) on the levels of iso butyrate, isovalerate and valerate. The study concluded that the low PES index ration (0.5) produced a decent BCVFA profile using coconut or soybean meal.
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