

## Produk Metabolisme Rumen pada Sapi Perah Laktasi

<b>Title</b>	Produk Metabolisme Rumen pada Sapi Perah Laktasi
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<b>Accreditation</b>	
<b>Abstract</b>	(Rumen metabolism product on lactating dairy cattle) ABSTRACT. The rumen microorganism, as yeast, have an important role in rumen fermentation processes and the rumen metabolism product. A research had been done to study the use of yeast, <i>Saccharomyces cerevisiae</i> in Lactating dairy cattle ration. The research had been conducted by experimental method, in a Latin Square Design. The animal were subjected as column and periods function as row. The treatment to be tested were four levels of yeast addition, namely : 0, 5, 10 and 15 g/cattle/day. The variables measured were rumen metabolism product : Total Volatile Fatty Acids (T-VFA), Acetate (C2), Propionate (C3), Butyrate (C4), Formiate, Valerate, Nitrogen Ammonia and C2/C3. Based on the all variables measured, it was indicated that the addition of yeast <i>Saccharomyces cerevisiae</i> up to 15 g/cattle/day have not changed the rumen metabolism product on lactating dairy cattle; although it was a normally production of total VFA (96,86 $\pm$ 9,94 mM/L and C2/C3 (3,08 $\pm$ 0,14), but it was very high production of N-NH <sub>3</sub> (12,85 $\pm$ 2,72 mM/L). To increase the efficiency of metabolism processes, it is need the addition of fermentable carbohydrate in ration.
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