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Authors: E.H. Yoshimura, N.W. Santos, E. Machado, B.C. Agustinho, L.M. Pereira, S.C. de Aguiar, R. Franzolin, E. Gasparino, G.T. dos Santos, L.M. Zeoula

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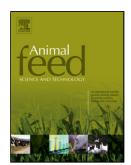
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ACCEPTED MANUSCRIPT

Effects of dairy cow diets supplied with flaxseed oil and propolis extract, with or without vitamin E, on the ruminal microbiota, biohydrogenation, and digestion

Short title: Flaxseed oil and antioxidants in dairy cow diets

E. H. Yoshimura^a, N. W. Santos^a*, E. Machado^a, B. C. Agustinho^a, L. M. Pereira^a, S. C. de Aguiar^b, R. Franzolin^c, E. Gasparino^a, G. T. dos Santos^a, L. M. Zeoula^a

^a Departamento de Zootecnia, Universidade Estadual de Maringá, Maringá, Paraná 87020900, Brazil

^b Departamento de Zootecnia, Universidade do Estado de Mato Grosso, Pontes e Lacerda, Mato Grosso 78250000, Brazil

^c Departamento de Zootecnia, Universidade de São Paulo, Pirassununga, São Paulo 13635900, Brazil

*Corresponding author. Tel.: +55 44 3011 8958; fax: +55 44 3011 8977.

E-mail address: santos.woruby.n@gmail.com (N.W. Santos).

Highlights

- A flaxseed oil diet was added with a propolis product and vitamin E for dairy cows.
- The propolis-based product is rich in phenolic compounds, mainly Artepillin C.
- Flaxseed oil diet reduced rumen protozoa and bacteria involved in lipolysis.
- The propolis-based product enhanced *Butyrivibrio fibrisolvens* count in the rumen.
- Association of antioxidants did not alter intake, digestibility, and fermentation.

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