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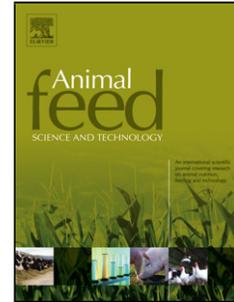
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Authors: F.E. De Marchi, G.T. Santos, H.V. Petit, C. Benchaar

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Oxidative status of dairy cows fed flax meal and infused with sunflower oil in the abomasum

F.E. De Marchi^a, G.T. Santos^a, H.V. Petit^b and C. Benchaar^{b,*}

^a *Departamento de Zootecnia, Universidade Estadual de Maringá, Maringá, PR 87020-900, Brazil*

^b *Sherbrooke Research and Development Centre, Agriculture and Agri-Food Canada, Sherbrooke, QC, J1M 0C8, Canada*

*Corresponding author.

E-mail address: chaouki.benchaar@agr.gc.ca (C. Benchaar).

HIGHLIGHTS

- Flax meal is rich in polyphenolic and antioxidant compounds
- Sunflower oil is rich in omega-6 fatty acids
- Peroxidizability index is not affected by flax meal and sunflower infusion in the duodenum
- Flax meal brings no benefits against peroxidation for cows infused with sunflower oil in the duodenu

ABSTRACT

Flax products increase concentration of antioxidants in milk and plasma of dairy cows, which may reduce oxidative damage resulting from lipoperoxidation of polyunsaturated fatty acids. The aim of this study was to investigate the effects of flax meal on the antioxidant status of dairy cows infused with sunflower oil (SO), a source of omega-6 fatty acids (FA), in the abomasum. Eight rumen fistulated lactating Holstein cows were assigned to a double 4 × 4

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