

Accepted Manuscript

Title: Comparison of microalgae and rapeseed meal as supplementary protein in the grass silage based nutrition of dairy cows

Authors: M. Lamminen, A. Halmemies-Beauchet-Filleau, T. Kokkonen, I. Simpura, S. Jaakkola, A. Vanhatalo



PII: S0377-8401(17)30538-2
DOI: <https://doi.org/10.1016/j.anifeedsci.2017.10.002>
Reference: ANIFEE 13868

To appear in: *Animal Feed Science and Technology*

Received date: 2-5-2017
Revised date: 4-10-2017
Accepted date: 6-10-2017

Please cite this article as: Lamminen, M., Halmemies-Beauchet-Filleau, A., Kokkonen, T., Simpura, I., Jaakkola, S., Vanhatalo, A., Comparison of microalgae and rapeseed meal as supplementary protein in the grass silage based nutrition of dairy cows. *Animal Feed Science and Technology* <https://doi.org/10.1016/j.anifeedsci.2017.10.002>

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

Comparison of microalgae and rapeseed meal as supplementary protein in the grass silage based
nutrition of dairy cows

M. Lamminen, A. Halmemies-Beauchet-Filleau, T. Kokkonen, I. Simpura, S. Jaakkola, A.

Vanhatalo*

Department of Agricultural Sciences, University of Helsinki, P.O. Box 28, FI-00014 University of

Helsinki, Finland

* Corresponding author. Tel: +358 50 438 1187; EM: aila.vanhatalo@helsinki.fi

Highlights

- Lamminen et al. Comparison of microalgae and rapeseed meal as supplementary protein in the grass silage-based nutrition of dairy cows.
- *Highlights:*
- Milk production responses to microalgae were evaluated in relation to unsupplemented and rapeseed meal supplemented diets.
- Microalgae did not affect DMI or milk yield but its poorer palatability decreased the proportion of concentrate in the diet compared to rapeseed meal.
- Substitution of rapeseed meal by microalgae tended to decrease milk protein yield.
- Compared to rapeseed meal, microalgae resulted in poorer N utilisation.
- Microalgae is suitable protein feed for dairy cows, though the protein value is likely lower than that of rapeseed meal.

Download English Version:

<https://daneshyari.com/en/article/8491084>

Download Persian Version:

<https://daneshyari.com/article/8491084>

[Daneshyari.com](https://daneshyari.com)