Title: Growth, feed intake, carcass characteristics, and meat fatty acid profile of lambs fed soybean oil partially replaced by fish oil blend

Author: E.M. Ferreira A.V. Pires I. Susin R.S. Gentil M.O.M. Parente C.P. Nolli R.C.M. Meneghini C.Q. Mendes C.V.D.M. Ribeiro

PII: S0377-8401(13)00271-X
DOI: http://dx.doi.org/doi:10.1016/j.anifeedsci.2013.09.016
Reference: ANIFEE 12970

To appear in: *Animal Feed Science and Technology*

Received date: 26-10-2012
Revised date: 25-9-2013
Accepted date: 28-9-2013

Please cite this article as: Ferreira, E.M., Pires, A.V., Susin, I., Gentil, R.S., Parente, M.O.M., Nolli, C.P., Meneghini, R.C.M., Mendes, C.Q., Ribeiro, C.V.D.M., Growth, feed intake, carcass characteristics, and meat fatty acid profile of lambs fed soybean oil partially replaced by fish oil blend, *Animal Feed Science and Technology* (2013), http://dx.doi.org/10.1016/j.anifeedsci.2013.09.016

Growth, feed intake, carcass characteristics, and meat fatty acid profile of lambs fed soybean oil partially replaced by fish oil blend

E. M. Ferreira [a], A. V. Pires [a,*], I. Susin [a], R. S. Gentil [a], M. O. M. Parente [a], C. P. Nolli [a], R. C.M. Meneghini [a], C. Q. Mendes [a], C. V. D. M. Ribeiro[b]

[a] Department of Animal Science, College of Agriculture "Luiz de Queiroz", University of São Paulo, Piracicaba, São Paulo, Brazil, PO Box 09, 13418-900

[b] Department of Animal Science, Universidade Federal da Bahia, Bahia, Brazil, 40170-110

*Corresponding author. Current address: University of Sao Paulo – ESALQ, Animal Science Department, Piracicaba, SP, Brazil. Tel.: +55 19 3429-4134; fax: +55 19 3429-4215.

Email address: pires.1@usp.br. (A.V. Pires)

ABSTRACT

The objective of this study was to evaluate the effects of partial replacement of soybean oil by fish oil on dry matter intake (DMI), growth, carcass characteristics, and meat fatty acid profile of feedlot lambs. Fifty Santa Ines male lambs with 17.1 ± 2.8 of initial body weight (BW) were individually penned and used in a randomized complete block design with 10 blocks and 5 treatments. Dietary treatments, dry matter (DM) basis, consisted of: 1) control diet (CONT) with a 10:90 of forage to concentrate ratio, 2) control diet supplemented with 40 g/kg of soybean oil (0FO), 3) control diet supplemented with 2.5 g/kg of fish oil blend + 37.5 g/kg of soybean oil (25FO), 4) control diet supplemented with 5 g/kg of fish oil blend + 35 g/kg of soybean oil