

Accepted Manuscript

Title: Yellow-seeded *B. napus* and *B. juncea* Canola. Part 1.
Nutritive value of the meal for broiler chickens

Authors: M. Rad-Spice, A. Rogiewicz, J. Jankowski, B.A. Slominski



PII: S0377-8401(17)31384-6
DOI: <https://doi.org/10.1016/j.anifeedsci.2018.03.017>
Reference: ANIFEE 13971

To appear in: *Animal Feed Science and Technology*

Received date: 3-11-2017
Revised date: 26-3-2018
Accepted date: 29-3-2018

Please cite this article as: Rad-Spice M, Rogiewicz A, Jankowski J, Slominski BA, Yellow-seeded *B. napus* and *B. juncea* Canola. Part 1. Nutritive value of the meal for broiler chickens, *Animal Feed Science and Technology* (2010), <https://doi.org/10.1016/j.anifeedsci.2018.03.017>

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.

Running head: Yellow-seeded Canola**Yellow-seeded *B. napus* and *B. juncea* Canola. Part 1. Nutritive value of the meal
for broiler chickens**

M. Rad-Spice[†], A. Rogiewicz[†], J. Jankowski^{*}, B.A. Slominski^{†,2}

[†]Department of Animal Science, University of Manitoba, Winnipeg, Canada, R3T 2N2

^{*}Department of Poultry Science, University of Warmia and Mazury, 10-719 Olsztyn, Poland

¹Presented, in part, at the 14th International Rapeseed Congress 2015, Saskatoon, Saskatchewan

²Corresponding author: Tel. +1-204-474-9383; fax: +1-204-474-7628

E-mail address: bogdan.slominski@umanitoba.ca

Highlights

- Good chemical and nutritive characteristics of yellow-seeded *B. napus* and *B. juncea* canola meal (CM) for broiler chickens is documented.
- In comparison with the meals from conventional black-seeded canola, these from yellow-seeded canola contained more crude protein, more sucrose, and less dietary fibre.
- The AME_n and mean standardised ileal digestible amino acid coefficients for yellow-seeded *B. napus*, *B. juncea*, and the conventional black-seeded *B. napus* canola were 8.36, 9.12, and 7.86 MJ/kg DM, and 0.83, 0.83, and 0.82, respectively.
- Multi-carbohydrase enzyme supplementation resulted in higher AME_n values for all types of canola (8.72 vs. 8.18 MJ/kg DM).
- The growth performance study demonstrated that all types of CM could be used effectively and replace soybean meal in broiler chicken rations, irrespective of a somewhat decreased feed intake and body weight

Download English Version:

<https://daneshyari.com/en/article/8490962>

Download Persian Version:

<https://daneshyari.com/article/8490962>

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