

Accepted Manuscript

Title: Influence of detoxified neem cake on diet digestibility, body weight change, hormonal profiles, immune response and testicular gene expression in male sheep

Author: S.B.N. Rao Soumitra Jash D. Dineshkumar P.
Krishnamoorthy A.V. Elangovan M. Sivaram S. Parthipan S.
Selvaraju



PII: S0377-8401(15)30046-8
DOI: <http://dx.doi.org/doi:10.1016/j.anifeedsci.2015.10.008>
Reference: ANIFEE 13400

To appear in: *Animal Feed Science and Technology*

Received date: 26-5-2015
Revised date: 16-10-2015
Accepted date: 17-10-2015

Please cite this article as: Rao, S.B.N., Jash, S., Dineshkumar, D., Krishnamoorthy, P., Elangovan, A.V., Sivaram, M., Parthipan, S., Selvaraju, S., Influence of detoxified neem cake on diet digestibility, body weight change, hormonal profiles, immune response and testicular gene expression in male sheep, *Animal Feed Science and Technology* (2015), <http://dx.doi.org/10.1016/j.anifeedsci.2015.10.008>

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1 **Influence of detoxified neem cake on diet digestibility, body weight change, hormonal**
2 **profiles, immune response and testicular gene expression in male sheep**

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4 *S. B. N. Rao^{A#}, Soumitra Jash^A, D. Dineshkumar^A, P. Krishnamoorthy^B, A. V. Elangovan^A, ,*
5 *M. Sivaram^C, S. Parthipan^A and S. Selvaraju^A*

6
7 ^ANational Institute of Animal Nutrition and Physiology, Adugodi, Bangalore, 560 030, India

8 ^BNational Institute for Veterinary Epidemiology and Disease Informatics (NIVEDI), Hebbal,
9 Bangalore 560024, India.

10 ^C Southern Regional Station, National Dairy Research Institute, Adugodi, Bangalore, 560 030,
11 India

12 #Corresponding author: sbnrao@gmail.com

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14 Running title: Influence of detoxified neem cake on ram lambs

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17 **Highlight**

- 18 • Body weights and dry matter intake in neem cake supplemented groups are same.
19 • Digestibility and immunity parameters in neem cake groups are found to be same.
20 • Cortisol, IGF I, testosterone and metabolic hormones are also similar.
21 • 3-4 fold gene up regulation of IGF I and LHR evident in testicular tissue.
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