

Influence of lambing on the metabolic profile, neutrophil function and IgG levels in Lacaune sheep. Influência da parição no perfil metabólico, função de neutrófilos e teores de IgG em ovelhas da raça Lacaune.

[Michele dos Santos^{1*}](#), [Marla Schneider²](#), [Cláudia Medeiros Rodrigues³](#), [Aline de Jesus da Silva⁴](#), [Luana Carolina Bachmann Gregolin⁵](#), [Maiara Garcia Blagitz⁶](#), [Alice Maria Melville Paiva Della Libera⁷](#), [Ana Martiele Engelmann⁸](#), [Cássia Bagolin da Silva⁹](#), [Davi Fernando Alba¹⁰](#), [Wanderson Adriano Biscola Pereira¹¹](#), [Marta Lizandra do Rêgo Leal¹²](#)

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Animal Nutrition

Volume 7, Issue 2, June 2021, Pages 521-529



Original Research Article

Dietary supplementation with curcumin-loaded nanocapsules in lambs: Nanotechnology as a new tool for nutrition

Hiam Marcon ^a, Luiz G. Griss ^a, Vitor L. Molosse ^a, Bruno G.O. Cecere ^a, Davi F. Alba ^b, Karoline W. Leal ^b, Gabriela M. Galli ^b, Carine F. Souza ^c, Matheus D. Baldissera ^c, Samanta Gundel ^d, Vitória de A. Bassotto ^d, Aline F. Ourique ^d, Marcelo Vedovatto ^e, Aleksandro S. Da Silva ^{a, b}

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> [Heliyon](#). 12 de abril de 2021; 7 (4): e06732. doi: 10.1016 / j.heliyon.2021.e06732.
eCollection 2021 abr.

Efeitos positivos da suplementação dietética com pó de biocolina na produção e qualidade do leite e nas respostas antioxidantes em ovelhas em lactação: uma nova ferramenta nutricional

Davi F Alba ¹, Karoline Leal ¹, Marily H Cunha ¹, Gilneia da Rosa ¹, Hiam Marcon ²,
Carine F Souza ³, Matheus D Baldissera ⁴, Claiton A Zotti ⁵, Renata L Kavalek ⁶, Aniela P Kempka ⁶,
Marcelo Vedovatto ⁷, Aleksandro S Da Silva ¹ ⁸

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PMID: 33912712 PMCID: PMC8065297 DOI: 10.1016 / j.heliyon.2021.e06732



ARTIGO DE PESQUISA

Biocolina vegetal como hepatoprotetor em poedeiras alimentadas com dieta contaminada com aflatoxina B₁

V. Dazuk , MM Boiago , G. da Rosa , DF Alba , CF Souza , MD Baldissera , M. Vedovatto , RE Mendes , JM Santurio , GL Deolindo , AS Da Silva

Autor para correspondência: dasilva.aleksandro@gmail.com

World Mycotoxin Journal: 14 (3) - Páginas: 367 - 377

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ELSEVIER

Microbial Pathogenesis

Volume 159, October 2021, 105113



Microencapsulated phytogetic in dog feed modulates immune responses, oxidative status and reduces bacterial (*Salmonella* and *Escherichia coli*) counts in feces

Gabriela Campigotto ^a, Antonise M. Jaguezski ^b, Davi F. Alba ^a, Laura C.D. Giombelli ^a, Gilnéia da Rosa ^a, Carine F. Souza ^b, Matheus D. Baldissera ^c, Tiago G. Petrolli ^d, Aleksandro S. da Silva ^e

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> *Microb Pathog.* 2020 Jan;138:103787. doi: 10.1016/j.micpath.2019.103787. Epub 2019 Oct 8.

Impacts of *Escherichia coli* infection in young breeder chicks on the animal behavior and cerebral activity of purinergic and cholinergic enzymes involved in the regulation of molecules with neurotransmitter and neuromodulator function

Gilneia da Rosa ¹, Davi F Alba ¹, Anielen D Silva ², Vanessa V Miron ², Vera Maria Morsch ², Marcel M Boiago ¹, Lenita M Stefani ¹, Matheus M Baldissera ³, Marcos T Lopes ⁴, Ricardo E Mendes ⁵, Aleksandro S da Silva ⁶

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ELSEVIER

Animal Feed Science and Technology

Volume 263, May 2020, 114452



Effects of soybean oil replacement by açai oil in laying hen diets on fatty acid profile and egg quality

Bruno F. Fortuoso ^a, Gabriela M. Galli ^b, Rosilene C. De Oliveira ^a, Carine F. Souza ^c, Matheus D. Baldissera ^d, Raquel G. Vendruscolo ^e, Roger Wagner ^e, Davi F. Alba ^b, Marcel M. Boiago ^{a, b}, Aleksandro S. Da Silva ^{a, b, c}

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> *Microb Pathog.* 2020 Sep;146:104237. doi: 10.1016/j.micpath.2020.104237. Epub 2020 May 5.

Fumonisin-(*Fusarium verticillioides*)-contaminated feed causes hepatic oxidative stress and negatively affects broiler performance in the early stage: Does supplementation with açai flour residues (*Euterpe oleracea*) minimize these problems?

Marcela C S Sousa ¹, Gabriela M Galli ¹, Nathieli B Bottari ², Davi F Alba ¹, Karoline W Leal ¹, Thalison F Lopes ², Letícia Druzian ², Maria Rosa C Schetinger ², Eduardo M Gloria ³, Ricardo E Mendes ⁴, Lenita M Stefani ¹, Aleksandro S Da Silva ⁵

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> [Microb Pathog.](#) 2020 Oct;147:104247. doi: 10.1016/j.micpath.2020.104247. Epub 2020 May 11.

Pathogenetic effects of feed intake containing of fumonisin (*Fusarium verticillioides*) in early broiler chicks and consequences on weight gain

Marcela C S Sousa ¹, Gabriela M Galli ¹, Davi F Alba ¹, Luiz Gustavo Griss ², Roger R Gebert ², Carine F Souza ³, Matheus D Baldissera ⁴, Eduardo M Gloria ⁵, Ricardo E Mendes ⁶, Gabrielli O Zanelato ⁶, Anderson Gris ⁶, Marcel M Boiago ⁷, Lenita M Stefani ⁸, Aleksandro S da Silva ⁹

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PMID: 32437833 DOI: [10.1016/j.micpath.2020.104247](#)

> J Therm Biol. 2020 Jul;91:102618. doi: 10.1016/j.jtherbio.2020.102618. Epub 2020 May 15.

Curcumin addition in diet of laying hens under cold stress has antioxidant and antimicrobial effects and improves bird health and egg quality

Gilneia da Rosa ¹, Vanessa Dazuk ¹, Davi F Alba ¹, Gabriela M Galli ¹, Vitor Molosse ², Marcel M Boiago ², Carine F Souza ³, Lorenzo B Abbad ³, Matheus D Baldissera ³, Lenita M Stefani ¹, Aleksandro S Da Silva ⁴

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Small Ruminant Research

Volume 190, September 2020, 106141



Curcumin supplementation positively modulates fatty acid profiles in lamb meat

Hiam Marcon ^a, Matheus D. Baldissera ^b, Valcenir J.M. Furlan ^c, Roger Wagner ^d, Davi F. Alba ^e, Vitor L. Molosse ^a, Bruno G.O. Cecere ^a, Aleksandro S. Da Silva ^{a, c, *}

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Original Article | [Published: 01 June 2020](#)

Intake of snacks containing curcumin stimulates erythropoiesis and antioxidant response in dogs

[Gabriela Campigotto](#), [Davi F. Alba](#), [Jorge A. Favaretto](#), [Roger R. Gebert](#), [Carine F. Souza](#), [Matheus D. Baldissera](#) & [Aleksandro S. Da Silva](#) 

[Comparative Clinical Pathology](#) **29**, 855–863 (2020) | [Cite this article](#)

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Abstract

The objective of this study was to determine whether snacks containing curcumin have beneficial effects on dog health. The snacks were produced from commercial canned meat for dogs, and curcumin was added and homogenized. Snacks containing 15 mg of curcumin were produced, frozen, and offered to dogs twice a day. Ten beagles (6 months of age) were used. The animals were placed in an experimental kennel and allocated randomly to 1 of 2 treatments (5 dogs/treatment): snacks containing curcumin (curcumin; 30 mg of



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ELSEVIER

Livestock Science

Volume 240, October 2020, 104144



Supplementation with a blend based on micro-encapsulated carvacrol, thymol, and cinnamaldehyde in lambs feed inhibits immune cells and improves growth performance

Jorge A. Favaretto ^a, Davi F. Alba ^b, Maíara S. Marchiori ^b, Hiam J. Marcon ^b, Carine F. Souza ^c, Matheus D. Baldissera ^c, Anderson E. Bianchi ^b, Murilo Zanluchi ^b, Bruna Klein ^d, Roger Wagner ^d, Marcelo Vedovatto ^e, Aleksandro S. Da Silva ^{a, b}

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[Heliyon](#). 2021 Apr; 7(4): e06732.

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Published online 2021 Apr 12. doi: [10.1016/j.heliyon.2021.e06732](https://doi.org/10.1016/j.heliyon.2021.e06732)

PMID: [33912712](https://pubmed.ncbi.nlm.nih.gov/33912712/)

Positive effects of biocholine powder dietary supplementation on milk production and quality, and antioxidant responses in lactating ewes: A new nutritional tool

[Davi F. Alba](#),^a [Karoline Leal](#),^a [Marily H. Cunha](#),^a [Gilneia da Rosa](#),^a [Hiam Marcon](#),^b [Carine F. Souza](#),^c [Matheus D. Baldissera](#),^d [Claiton A. Zotti](#),^e [Renata L. Kavalek](#),^f [Aniela P. Kempka](#),^f [Marcelo Vedovatto](#),^g and [Aleksandro S. Da Silva](#)^{a,h,*}

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> Arch Anim Nutr. 2020 Oct;74(5):397-413. doi: 10.1080/1745039X.2020.1769442. Epub 2020 Jun 30.

Dog food production using curcumin as antioxidant: effects of intake on animal growth, health and feed conservation

Gabriela Campigotto¹, Davi F Alba¹, Maiara M Sulzbach², Daiane S Dos Santos², Carine F Souza³, Matheus D Baldissera³, Samanta Gundel⁴, Aline F Ourique⁴, Fernando Zimmer¹, Tiago G Petrolli⁵, Diovani Paiano^{1 2}, Aleksandro S Da Silva^{1 2}

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Small Ruminant Research

Volume 194, January 2021, 106265



Addition of propolis to milk improves lactating lamb's growth: Effect on antimicrobial, antioxidant and immune responses in animals

Bruno G.O. Cécere ^a, Aleksandro S. da Silva ^{a, b} , Vitor L. Molosse ^a, Davi F. Alba ^b, Karoline W. Leal ^b, Gilneia da Rosa ^b, Wanderson A.B. Pereira ^c, Anielen D. da Silva ^d, Maria Rosa C. Schetinger ^d, Anieli P. Kempka ^e, Aline Nunes ^f, Marcelo Maraschin ^f, Denise N. Araújo ^{a, b}, Guilherme Luiz Deolindo ^a, Marcelo Vedovatto ^g

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Virulence of *Trypanosoma cruzi* in Açai (*Euterpe oleracea* Martius) Pulp following Mild Heat Treatment.

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Effects of açai on oxidative stress, ER stress, and inflammation-related parameters in mice with high fat diet-fed induced NAFLD

Authors: Mayara de Freitas Carvalho, Nara Nunes Lage, Alice de Souza Paulino ...

Açai (*Euterpe oleracea* Mart.) polyphenolics in their glycoside and aglycone forms induce apoptosis of HL-60 leukemia cells.

Authors: S Mertens-Talcott, Susan S Percival, David Pozo

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Effects of the inclusion of açai oil in diet of prepartum Holstein cows on milk production, somatic cell counts and future lactation

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Author(s): DAIANE S. DOS SANTOS, VANDERLEI KLAUCK, CARINE F. SOUZA, MATHEUS D. BALDISSERA, CLEITON THEISEN, BRUNA BORDIGNON, DAVI F. ALBA, JOÃO H. REIS, ROGER R. GEBERT, MARCELO VEDOVATTO, ALEKSANDRO S. DA SILVA

Publication date (Print and electronic): 2020

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Inclusion of pepper extract containing capsaicin in the diet of ewes in the mid-lactation period: effects on health, milk production, and quality

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Biotechnology Reports

Volume 29, March 2021, e00580

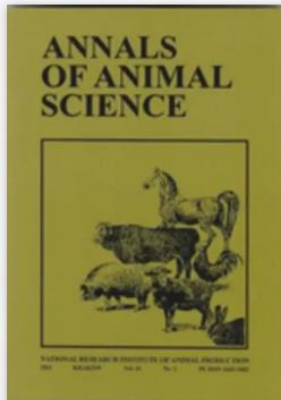


Effects of biocholine powder supplementation in ewe lambs: Growth, rumen fermentation, antioxidant status, and metabolism

Karoline W. Leal ^a, Davi F. Alba ^a, Marily G. Cunha ^a, Hiam Marcon ^a, Fernanda C. Oliveira ^b, Roger Wagner ^b, Anielen D. Silva ^c, Thalison F. Lopes ^c, Loren S.B. de Jesus ^c, Maria Rosa C. Schetinger ^c, Claiton A. Zotti ^d, Julcemar D. Kessler ^e, Marcelo Vedovatto ^f, Aleksandro S. Da Silva ^g

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← Volume 21 (2021): Issue 2 (April 2021)



Annals of Animal Science

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Effect of curcumin dietary supplementation on growth performance, physiology, carcass characteristics and meat quality in lambs

[Hiam Marcon](#), [Carine F. Souza](#), [Matheus D. Baldissera](#), [Davi F. Alba](#), [Jorge A. Favaretto](#), [Daiane S. Santos](#), [Luiza Borges](#), [Julcemar D. Kessler](#), [Marcelo Vedovatto](#), [Anderson E. Bianchi](#) and [Aleksandro S. Da Silva](#)

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> Microb Pathog. 2019 May;130:131-136. doi: 10.1016/j.micpath.2019.03.004. Epub 2019 Mar 8.

Impact of colibacillosis on production in laying hens associated with interference of the phosphotransfer network and oxidative stress

Gilneia da Rosa ¹, Aleksandro S Da Silva ², Carine F Souza ³, Matheus D Baldissera ⁴, Ricardo E Mendes ⁵, Denise N Araujo ¹, Davi F Alba ¹, Marcel M Boiago ¹, Lenita Moura Stefani ⁶

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PMID: 30858007 DOI: 10.1016/j.micpath.2019.03.004



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Journal of Thermal Biology

Volume 82, May 2019, Pages 197–205



Use of grape residue flour in lactating dairy sheep in heat stress: Effects on health, milk production and quality

Davi F. Alba ^a, Gabriela Campigotto ^a, Chrystian J. Cazarotto ^a, Daiane S. dos Santos ^b, Roger R. Gebert ^b, João H. Reis ^b, Carine F. Souza ^c, Matheus D. Baldissera ^c, Amanda L. Gindri ^d, Anieli P. Kempka ^e, Elizabeth A. Palmer ^f, Marcelo Vedovatto ^f, Aleksandro S. Da Silva ^{a, b}

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Journal of Thermal Biology

Volume 84, August 2019, Pages 250–258



Benefits of the inclusion of açai oil in the diet of dairy sheep in heat stress on health and milk production and quality

Daiane da S. dos Santos ^a, Vanderlei Klauck ^b, Gabriela Campigotto ^b, Davi F. Alba ^b, João H. dos Reis ^a, Roger R. Gebert ^a, Carine F. Souza ^c, Matheus D. Baldissera ^d, Ana Luiza B. Schogor ^a, Ingrid D. Santos ^e, Roger Wagner ^e, Marcelo Vedovatto ^f, Aleksandro S. Da Silva ^{a, b}

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> [Comp Immunol Microbiol Infect Dis](#). 2019 Oct;66:101330. doi: 10.1016/j.cimid.2019.101330.
Epub 2019 Jul 4.

Cholinesterase as an inflammatory marker of subclinical infection of dairy cows infected by *Neospora caninum* and risk factors for disease

Marciana Anita Appelt ¹, Aleksandro Schafer da Silva ², Chrystian Jassana Cazarotto ³, Gustavo Machado ⁴, Rafael Sachet Rodrigues ⁵, Luke James Norbury ⁶, Matheus D Baldissera ⁷, Davi F Alba ³, Anderson Gris ⁸, Ricardo Evandro Mendes ⁹

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➤ [Exp Parasitol](#). 2019 Oct;205:107735. doi: 10.1016/j.exppara.2019.107735. Epub 2019 Aug 3.

Effects of oral administration of copper capsules on helminth control in lactating dairy sheep: An effective alternative to replace conventional antiparasitics during lactation

Gabriela Campigotto ¹, Roger R Gebert ², Daiane S Santos ², João H Dos Reis ², Davi F Alba ¹,
Chrystian J Cazarotto ¹, Marta L R Leal ³, Matheus D Baldissera ⁴, Thalison F Lopes ⁵,
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Microbial Pathogenesis

Volume 137, December 2019, 103732



Subclinical mastitis in Lacaune sheep: Causative agents, impacts on milk production, milk quality , oxidative profiles and treatment efficacy of ceftiofur

Davi Fernando Alba ^a, Gilneia da Rosa ^a, Dalana Hanauer ^b, Thalia Festa Saldanha ^c, Carine F. Souza ^d,
Matheus D. Baldissera ^d, Daiane da Silva dos Santos ^e, Ana Paula Piovezan ^f, Lilian Kolling Girardini ^f,
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Aquaculture

Volume 515, 15 January 2020, 734574



Phosphatidylcholine in diets of juvenile Nile tilapia in a biofloc technology system: Effects on performance, energy metabolism and the antioxidant system

Alison A. Sousa ^a, , Diogo L.A. Lopes ^{a, b}, Maurício G.C. Emerenciano ^{a, c}, Luisa Nora ^b, Carine F. Souza ^d, Matheus D. Baldissera ^d, Bernardo Baldisserotto ^d, Davi F. Alba ^a, Aleksandro S. Da Silva ^{a, b},

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> Microb Pathog. 2020 Feb;139:103861. doi: 10.1016/j.micpath.2019.103861. Epub 2019 Nov 9.

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Impact of Escherichia coli infection in broiler breeder chicks: The effect of oxidative stress on weight gain

Gilneia da Rosa¹, Davi Fernando Alba¹, Anielen D Silva², Anderson Gris³, Ricardo E Mendes³, Vitor B Mostardeiro², Thalison F Lopes², Maria Rosa C Schetinger², Lenita M Stefani¹, Marcos T Lopes⁴, Marcel Manente Boiago¹, Aleksandro S da Silva⁵

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PMID: 31715322 DOI: 10.1016/j.micpath.2019.103861

Abstract

ADDITION OF TANNIN IN LAMB DIETS AFTER WEANING: IMPACT ON PERFORMANCE AND HEMATOLOGICAL AND BIOCHEMICAL VARIABLES

Eduardo Lucianer, Alekzandro Schafer da Silva, Chrystian Jassana Casarotto, Davi Fernando Alba, Luiz Gustavo Grizz, Aline Zampar, Marcelo Védovatto, Julcemar Dias Kessler

ABSTRACT

Background: In ruminants, the weaning period is a critical phase, because these young animals are allocated to various facilities and receive different feeds. Alternatively, supplements and additives can be used. The tannins are polyphenols produced by plants; constitute a group of complex secondary metabolic factors that inhibit the consumption by herbivores or the development of microbial agents. The objective of this study was to determine whether the addition of condensed tannin extract from quebracho trees (*Schinopsis lorentzii*) in lamb diets after weaning would have beneficial effects on growth and health.

Materials, Methods & Results: Forty lambs were assigned randomly to 1 of 4 treatments (10 lambs/treatment): T1 (0%; control), T2, T3, and T4 was 0.3, 0.6 and 0.9 % of quebracho extract in the diet, respectively. The T2 (0.3%) lambs had greater body condition scores ($P = 0.005$), and although they did not differ significantly, they had numerically greater body weight ($P = 0.067$) and weight gain ($P = 0.072$), than the control lambs. The anthelmintic and anticoccidial effect was not possible to verify because no animals in any group were naturally infected by helminths or coccidia. The T4 lambs had greater numbers of erythrocytes (days 10 and 40) [$P < 0.05$], greater hemoglobin concentrations (days 10 and 40), and greater numbers of total leukocytes (day 10) as a result of greater numbers of neutrophil at the end of the adaptation period (day 10) compared to T1. The T3 and T4 lambs had greater ($P < 0.05$) serum total protein (days 10 and 40) because of greater concentration of serum globulins (days 10 and 40) compared to T1, suggesting that the addition of tannin stimulated the immune system. The addition of quebracho in the diet affected serum concentrations of glucose, triglycerides, and cholesterol at some times and treatments ($P < 0.05$). However, these changes did not follow a pattern; this finding only suggested that there was an influence on the metabolism of carbohydrates and lipids. The T2 lambs showed no differences on hemogram or serum clinic biochemistries ($P > 0.05$); however, they had a greater body condition scores than T1 ($P < 0.05$).

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Impact of dietary bee honey during first weeks of life in dairy lambs on growth and metabolism

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Abstract

Bee honey has beneficial properties that are recognized worldwide, including high nutritional value. The objective of this study was to determine whether a daily dose of honey would improve productive performance as well as energy, protein, and lipid metabolisms in lactating lambs. Bee honey (from *Apis mellifera*) was offered orally for the first 7 days of the animals' lives. Twenty Lacaune lambs were used, allocated to two groups: group C, lambs not supplemented with honey, and group T, consisting of lambs fed daily doses of 10 mL of honey.