



Sustainable Livestock Production in the Perspective of  
Food Security, Policy, Genetic Resources, and Climate Change

## Proceedings Full Papers

10-14 November 2014, Yogyakarta, INDONESIA



## The 16<sup>th</sup> AAAP Congress



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**The 16<sup>th</sup> AAAP Congress**



Gadjah Mada University



Indonesian Society of Animal Sciences



Ministry of Agriculture



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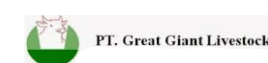
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# SUSTAINABLE LIVESTOCK PRODUCTION IN THE PRESPECTIVE OF FOOD SECURITY, POLICY, GENETIC RESOURCES, AND CLIMATE CHANGE

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## Cataloguing-in-Publication Data

The 16<sup>th</sup> Asian-Australasian Associations of Animal Production Societies

Proceedings Full Papers

Sustainable Livestock Production in the Perspective of

Food Security, Policy, Genetic Resources, and Climate Change

10-14 November 2014, Yogyakarta, Indonesia / editors Subandriyo *et al*;

2825 p: ill.; 21 x 29,7 cm

Organized by Indonesian Society of Animal Sciences

In Collaboration with Ministry of Agriculture

Faculty of Animal Sciences Universitas Gadjah Mada

ISBN 978-602-8475-87-7

1. Livestock

2. Food Security

3. Policy

4. Genetic Resources

5. Climate Change

I. Title

II. Subandriyo

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# AAAP



## Asian-Australasian Association of Animal Production Societies

**Scope of AAAP:** AAAP is established to devote for the efficient animal production in the Asian-Australasian region through national, regional, international cooperation and academic conferences.

**Brief History of AAAP:** AAAP was founded in 1980 with 8 charter members representing 8 countries—those are Australia, Indonesia, Japan, Korea, Malaysia, New Zealand, Philippines and Thailand. Then, the society representing Taiwan joined AAAP in 1982 followed by Bangladesh in 1987, Papua New Guinea in 1990, India and Vietnam in 1992, Mongolia, Nepal and Pakistan in 1994, Iran in 2002, Sri Lanka and China in 2006, thereafter currently 19 members.

**Major Activities of AAAP:** Biennial AAAP Animal Science Congress, Publications of the Asian-Australasian Journal of Animal Sciences and proceedings of the AAAP congress and symposia and Acknowledgement awards for the contribution of AAAP scientists.

### Organization of AAAP:

- President: Recommended by the national society hosting the next biennial AAAP Animal Science Congress and approved by Council meeting and serve 2 years.
- Two Vice Presidents: One represents the present host society and the other represents next host society of the very next AAAP Animal Science Congress.
- Secretary General: All managerial works for AAAP with 6 years term by approval by the council
- Council Members: AAAP president, vice presidents, secretary general and each presidents or representative of each member society are members of the council. The council decides congress venue and many important agenda of AAAP

**Office of AAAP:** Decided by the council to have the permanent office of AAAP in Korea. Currently # 909 Korea Sci & Tech Center Seoul 135-703, Korea

**Official Journal of AAAP:** Asian-Australasian Journal of Animal Sciences (Asian-Aust. J. Anim. Sci. ISSN 1011-2367. <http://www.ajas.info>) is published monthly with its main office in Korea

### Current 19 Member Societies of AAAP:

ASAP(Australia), BAHA(Bangladesh), CAASVM(China), IAAP(India), ISAS(Indonesia), IRAS(Iran), JSAS(Japan), KSAST(Korea), MSAP(Malaysia), MLSBA(Mongolia), NAS(Nepal), NZSAP(New Zealand), PAHA(Pakistan), PNGSA(Papua New Guinea), PHAS(Philippines), SLAAP(Sri Lanka), CSAS(Taiwan), AHAT(Thailand), AHAV(Vietnam).

### Previous Venues of AAAP Animal Science Congress and AAAP Presidents

I	1980	Malaysia	S. Jalaludin	II	1982	Philippines	V. G. Arganosa
III	1985	Korea	In Kyu Han	IV	1987	New Zealand	A. R. Sykes
V	1990	Taiwan	T. P. Yeh	VI	1992	Thailand	C. Chantalakhana
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XIII	2008	Vietnam	N.V. Thien	XIV	2010	Taiwan	L.C. Hsia
XV	2012	Thailand	C.Kittayachaweng	XVI	2014	Indonesia	Yudi.Guntara.Noor

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## Remark from Chairman of the 16<sup>th</sup> AAAP Congress

**Dear all of the scientists, delegates, participants, ladies and gentlemen,**

As the host of the 16<sup>th</sup> AAAP Animal Science Congress, we do impress, thankful, and present a high appreciation for your participation in joining the 16<sup>th</sup> AAAP Conference in Yogyakarta, Indonesia. We can see the very great enthusiasm of all the scientists to solve livestock problems as well as to share valuable information and knowledge for human prosperity all over the world.

A large numbers of representatives are participating in this conference, which indicates that the interest in the field of animal science is continuously increasing among member countries. We have invited some Plenary Speakers and Invited Papers who are qualified as scientists and bureaucrats in animal science field to share their valuable information and knowledge. Other participants can deliver their precious research through oral and poster presentations. This congress is also paralleled to symposium held by livestock organization and institution as well as some academic meetings.

The theme of the 16<sup>th</sup> AAAP Congress is “Sustainable Livestock Production in the perspective of Food security, Policy, Genetic Resources and Climate Change”. We believe that animal production in Asia and Australasia has become important and strategic sector to provide high quality food, opening up job opportunities, as well as improving farmer’s welfare. Animal science societies, therefore, have to support this growing interest by providing more appropriate and relevant technologies to improve efficiency of resources utilization to produce more animal protein food by member countries. Long term sustainable livestock production will, therefore, be significantly influenced by the national food policy, climate change issues, as well as conserved environments and genetic resources.

On behalf of 16<sup>th</sup> AAAP Committee and all associates, we wish all of the participants having a great achievement of success and fulfill the expectation as well as enjoying the interaction with all scientists participating the Congress.

High appreciation we may acknowledge to all of sectors, especially for His Majesty of Royal Palace of Yogyakarta, Sri Sultan Hamengku Buwono X, and Rector of Universitas Gadjah Mada, who have concerned to facilitate the Congress site host. Special thank to the Steering Committee, Scientific Committee, Reviewers and Editorial Boards for their great contribution to make the Congress successfully organized.

To you, your excellencies, invited guests and delegates, thank you for choosing to come to this conference and to Indonesia. We hope the arrangements we have put in place meet with your requirements. We wish you fruitful deliberations and an intellectually and socially rewarding stay in Yogyakarta.

We are looking forward to meeting you all in the future congress to continue.

*Terimakasih* (Thank you)

Budi Gunthoro

Chairman of the 16<sup>th</sup> AAAP Congress

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## 16<sup>th</sup> AAAP PRESIDENT'S REPORT

*Selamat pagi!*

**Dear Ladies and Gentleman**

**Attendants of 16 AAAP congress:**

It is my great pleasure and honor to welcome all of you at The 16<sup>th</sup> AAAP Congress on November 10 – 14, 2014 at Grha Sabha Pramana, Universitas Gadjah Mada, Yogyakarta Indonesia. This Congress is jointly organized by The Indonesian Society of Animal Science (ISAS), Indonesian Agency for Agricultural Research and Development, Indonesian Directorate General of Livestock and Animal Health Services-Ministry of Agriculture and Faculty of Animal Science Universitas Gadjah Mada. Universitas Gadjah Mada Campus is located in Yogyakarta, one of the Special Region in Indonesia where culture and tradition live in harmony with the modern nuance and educational spirit makes it a beautiful venue of this Congress.

The 16<sup>th</sup> AAAP Program consists of scientific and technical programs as well as social and cultural activities. The scientific and technical programs offer five plenary sessions, two satellite symposia, field trip, and many scientific sessions, both oral and poster presentations.

During this event distinguished scientists from all over the world will present plenary papers ranging from livestock policy, food security, local genetic resources, climate change, animal welfare, international trade, as well as global research agenda. I believe that around 1,200 scientists as well as livestock producers, companies, graduate and postgraduate students from 40 countries are attending the Congress and more than 770 research papers will be presented. The Congress also provides not only opportunities to discuss and exchange information and experience with scientists from different regions of the world, but also a good environment to build up friendship between nations is our ultimate goals for the Congress outcome. Moreover, this congress also keeps its tradition to be a forum of communication among researchers, academician, industries and related stakeholders among Asian-Australasian countries.

The social and cultural programs are specially designed to be very important for the congress participants since the promotion of friendship and future scientific cooperation are also central to this AAAP Congress. The Opening Ceremony will offer you the Congress Program at a glance. In addition, participants will also join at a warm Welcome Dinner gathering at Keraton Yogyakarta. Sri Sultan Hamengku Buwono X, His Majesty of The Royal Palace of Yogyakarta will give you the most memorable moment during this event.

Moreover, cultural night offers us an opportunity to introduce significant culture from participants' countries and gives a spectacular performance to enjoy in order to strengthen our friendship and future cooperation. Field trip, on the other hand, provides a wonderful sightseeing to the most valuable ancient heritage around Yogyakarta, such as Borobudur and Prambanan Temples, and more other interesting places to visit. I do hope that you enjoy your stay in Yogyakarta and not miss all of these spectacular opportunities.

Closing Ceremony will be held on November 14, 2014 immediately after the last session of presentation. During this great moment we will welcome the next host of the 17<sup>th</sup> AAAP Congress to deliver a brief message. The AAAP Congress Award will provide and announce some participant who receive appreciation for their valuable research.

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With all of our hospitality, we will try our best to make your brief visit to Yogyakarta and our beautiful country Indonesia, become a wonderful experience and memorable moments.

I wish you all a very pleasant and most enjoyable stay in Yogyakarta, Indonesia.

*Terima kasih (Thank you).*

Sincerely Yours  
Mr. Yudi Guntara Noor  
President  
The 16<sup>th</sup> AAP Congress

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## PREFACE

The proceedings of the 16<sup>th</sup> Congress of the Asian-Australasian Association of Animal Production Societies (AAAP) held on 10-14 November 2014 at Grha Sabha Pramana, Universitas Gadjah Mada, Yogyakarta, Indonesia, consist of two volumes. Those are Volume I of Plenary and Invited Papers and Volume II of Abstracts Contributed Papers. This is the second volume of the proceedings that contains a total of 754 abstracts, consist of 368 papers for oral presentation and 386 papers for poster. Papers were categorized into various disciplines, such as Nutrition and Feed Technology; Genetics and Reproduction; Physiology, Animal Welfare and Health Management; Product Technology and Food Safety; Waste and Environmental issues; Forage Agrostology; as well as Agribusiness, Marketing, Extension and Community Development. The scientific committee has initially received a total of 1,028 abstracts from 42 countries. After reviews have been made, 60 of them were rejected and 74 were cancelled by the authors. The reviewers consist of 4 international and 71 internal reviewers from 6 universities and 1 research institute in Indonesia. In the interest of time limitation for proceedings publication, we apologize for not including 140 submitted abstracts in the proceedings since they were not being followed up with full manuscripts until the extended due date we offered.

The scientific committee would like to thank all the reviewers and appreciate their effort to make significant contribution in reviewing the full manuscripts. Similarly, we would also like to thank supporting staffs at the secretariat office of the Faculty of Animal Science, Universitas Gadjah Mada as well as of the Indonesian Center for Animal Research and Development who have helped in the preparation of the proceedings. Finally, we would like to thank all the authors for their valuable contribution to the congress and make it useful for our societies.

Editorial Team

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B 983 ID	Using DVE/OEB System to Predict Protein Value of Soybean Meal, Yasmino Max <sup>®</sup> and Fishmeal for Ruminants <i>M. Danesh Mesgaran, P. Kheyrandish, E. Parand and A.R. Vakili</i>	1855
B 984 MY	<i>In Vitro</i> Digestibility and Nutritional Content of Rice Straw Treated with Urea and Effective Micro-Organisms (EM) <i>N. A. Roslan, S. F. Hamzah, H. Yaakub and A. A. Samsudin and A. R. Alimon</i>	1858
B 997 KR	Proteomic Analysis Reveals Proteins Involved in Milk Protein Synthesis in Bovine Mammary Gland <i>Seung-Woo Jeon, T. Wang, Jae-Sung Lee, Min-Jeong Kim, U-Suk Jung, Won-Seob Kim and Hong-Gu Lee</i>	1862
B 1062 IR	Evaluation of Raw Bitter Vetch ( <i>Vicia ervilia</i> ) Nutritive Value Using Chemical Composition, <i>in Sacco</i> and <i>in Vitro</i> Techniques in Ruminant <i>R. Valizadeh, M. Yari, S. E. Ghiasi and M. Mojtahedi</i>	1866
B 1068 JP	Palatability Evaluation of Feed for Beef Cattle Including Soybean Curd Residue and Soy Sauce Cake <i>K. Yasuda, K. Oishi, Y. Hirooka, M. Kitagawa, T. Tamura and H. Kumagai</i>	1870
B 1074 JP	Effects of Feeding Desalted Mother Liquor from Seasoning Process on Blood Metabolites and Ruminant Fermentation in Thai Native Bulls <i>T. Sakai, W. Anghong, M. Takeda, T. Suzuki, K. Oishi, H. Hirooka and H. Kumagai</i>	1874
<b>Small Ruminant</b>		
B 124 TR	The Effect of the Compensatory Growth on Weaned Lamb Fattening Performances and Feed Choice <i>İ. Şenöz, M. N. Rofiq and M. Görgülü</i>	1877

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B 332 ID	Usage of Sago Waste as Component of Complete Feed for Growing Boerka Goats <i>Kiston Simanihuruk, Antonius and Juniar Sirait</i>	1885
B 402 ID	Effect of Different Protein and Energy Levels in Concentrate Diets on Anglo-Nubian Young Goat Performance <i>Supriyati, L. Praharani, IGM Budiarsana and I-K. Utama</i>	1890
B 474 TH	Effects of Supplementing Dietary Neem Foliage on Protozoan Population in the Rumen and Faecal Nematode Egg Excretion in Meat Goats <i>S. Srisaikham, P. Paengkoum and W. Suksombat</i>	1894
B 532 ID	Nutrition Status of Female Bligon Goat Fed Diets Containing Undegraded Protein Supplement <i>Ahmad Iskandar Setiyawan, Kustantinah, Subur Priyono Sasmito Budhi, Zuprizal and Nanung Danar Dono</i>	1898
B 743 ID	Application of Total Mixture Forages Silage on Sheep Farming: Bean Sprouts Addition and Controlled Internal Drug Release Vaginal Insertion on Sheep Reproduction <i>Zaenal Bachruddin, Dodo Ramadhan, Yusuf Candra Kurnia, Edi Suryanto, Ismaya and Lies Mira Yusiati</i>	1902
B 800 TH	Effect of Sunflower Oil and Nitrate on Rumen Nutrient Digestibility in Meat Goats Fed Low Quality Roughage Using Gas Production Technique <i>Jiravan Khotsakdee, Chalermpon Yuangklang, Thansamay Vorlaphim, Bhutharit Vittayaphattananurak Raksasiri and Pramote Paengkoum</i>	1906
B 845 DZ	Clay in the Feeding of Ewes: Effect on the Quality of Milk and Blood Parameters <i>Meredef Aissa, Ouachem Derradji, Soltane Mahmoud and Dehimi Mohamed Laziz</i>	1910
B 881 MY	Effect of Different Levels of <i>L. leucocephala</i> and <i>M. esculenta</i> Leaves on Urinary Purine Derivatives of Goats <i>Liyana, A. H., Alimon, A. R. and Samsudin, A. A.</i>	1914
B 915 TH	Fermentation Characteristics and Aerobic Stability of Triticale Silage Treated with Formic Acid or a Mixture of Formic and Propionic Acids <i>A. R. Vakili, M. Danesh Mesgaran and A. Hodjatpanah-Montazeri</i>	1918

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B 1067 ID	Biscuit of <i>Carica papaya</i> L. and <i>Indigofera Sp</i> Leaf for Increasing Milk Production and Quality of Dairy Goat <i>Yuli Retnani, Idat Galih Permana, Nur R. Kumalasari, Rina Roslina and Amalia Ikhwanti</i>	1930
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B 114 TW	Establishing the Crude Protein and Metabolizable Energy Requirements of Brown Tsaiya Ducks during Laying Period <i>J. H. Lin, Y. A. Lin, C. H. Cheng, C. H. Su, and J. F. Huang</i>	1940
B 140 TH	Study on the Optimum Level of replacement Passion Fruit Husk with Corn Meal in Diet on Hen Production <i>Phonmun T, and T. Subanarat</i>	1943
B 155 ID	Physiological Responses of Broiler Chickens Fed Native Gedi Leaves ( <i>Abelmoschus manihot</i> (L.) Medik) at High Ambient Temperature <i>Jet S. Mandey, Hendrawan Soetanto, Osfar Sjojjan, and Bernat Tulung</i>	1946
B 255 TH	Effect of Dietary Nucleotides on Intestinal Morphology of Broiler Chickens <i>K. Paditporn, J. Mitchaothai, K. Rojanamongkol, P. Jaipeng and R. Lertpatarakomol</i>	1950
B 370 TW	Effect of Feed Restriction During Rearing Period on the Testicular Growth Modifications in White Roman Geese <i>S.D. Wang, C.C. Hsiao, C.M. Wang, Y.S. Jea, and J.W. Liao</i>	1954
B 412 DZ	Effects of Marl and Kaolin on Growth Performances, Digestive Efficiency and Wet Droppings of Broiler Chickens <i>D. Ouachem, A. Meredef, A. Kalli, N. Kaboul, A. Mehdaoui, and Z. Ahmed Gaid</i>	1958

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B 720 TH	Growth Performance, Carcass Percentage and Cost of Thai Native Chicken (Pradu-Handam and Chee) Raised by Broiler Diet and Layer Diet <i>N. Suayroop, B. Laopaiboon, W. Boonkum and M. Duangjinda</i>	1971
B 728 MY	Serum Biochemical Properties of Broiler Chickens Fed Diet Supplemented with <i>Orthosiphon stamineus</i> <i>Malahubban M, Alimon A.R, Sazili A.Q, Fakurazi S and Zakry F.A.A</i>	1975
B 729 ID	Effects of High Crude Fiber and Various Levels of Protein in the Diet on the Performance of EPMp Broiler Ducks at 10 Weeks <i>Maijon Purba and L. Hardi Prasetyo</i>	1980
B 766 ID	The Effect of Utilization Chitosan-Turmeric Extract in the Diet of Broiler Chicken As An Immunomodulator <i>Ari Kusuma Wati, Zuprizal, Supadmo, and Sundari</i>	1984
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B 853 NG	Growth Performance and Organoleptic Properties of Broilers Fed Rumen Filtrate Fermented Shea Nut ( <i>Vitellaria paradoxa</i> ) Meal <i>D. N. Tsado and J. Akinwolere</i>	1991
B 868 KR	Effects of Lysophospholipids on Growth Performance, Nutrient Digestibility, Blood Profiles and Carcass Traits in Broilers <i>Y.K. Hyun, W. Boontiam, Y. J. Ji, L. H. Fang, H. J. Kim and Y.Y. Kim</i>	1995
B 872 KR	Effects of Gromax <sup>®</sup> Supplementation on Growth Performance, Carcass Traits, Blood Profiles and Secretion of IGF-1 in Broiler Chickens <i>J. S. Hong, G. I. Lee, J. M. Kim, H. S. Choi and Y. Y. Kim</i>	1999

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B 957 LK	Effect of Phytase Enzyme on Phosphorous Availability of Broiler and Breeder Rations <i>M. A. J. P. Munasinghe, R. M. A. S. Bandara, B.C. Gallawattage and G. Weerakkody</i>	2005
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B 1019 TW	Two Stage Fermented Process Improved Standardized Ileal Amino Acid Digestibility of Feather Meal in Broilers <i>K. L. Chen and R. H. Yeh</i>	2012
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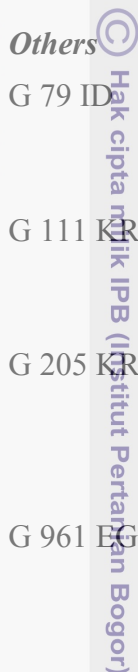
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## Performance of Dairy Calves Fed Diet Containing Silage Juices

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### ABSTRACT

Silage juice was proven to be equal with an antibiotic in terms of inhibiting *Salmonella* sp. and *E. coli* *in vitro*. The objective of this study was to compare between the effect of adding silage juice and tetra chlor, an antibiotic, in diets on performance of dairy calves. Twelve of male calves age one month were randomly assigned to one of the three dietary treatments, i.e.: Control diet that composed of milk replacer or starter diet (R1); Control diet +50 ppm antibiotic (R2); and Control diet + 0.3% silage juice (R3). Milk replacer was given as many as 10% of body weight in the beginning, and gradually decreased as increasing intake of starter diet, and then it was stopped after dry matter intake of starter diet reach 3% of body weight. Results showed that feed intake and daily gain of calves fed diets containing silage juice and antibiotic were better ( $P < 0.05$ ) compared with those of calves received control diet, and no different was found on the parameters for calves fed silage juice and antibiotics. Feed efficiency was also better for calves fed antibiotics ( $0.35 \pm 0.23$ ) and juice silage ( $0.41 \pm 0.15$ ) compared with that of calves fed control diet ( $0.34 \pm 0.14$ ). Neutrophil was better for calves fed silage and antibiotics compared with that of control diets. Diarrhea incidence was relatively higher for calves fed control diet compared with that of the other treatments as shown by the feces scores; the scores were 1.70, 1.66, and 1.69 for calves fed control, antibiotic and silage juice diets, respectively. It is concluded that silage juice is comparable with tetra chlor in terms of improving performance of calves.

**Key Words:** Antibiotic, Silage juices, Dairy calves, Diarrhea, Performance

### INTRODUCTION

Most of the calves in Indonesia do not grow well in accordance with the standard. It is caused not only by lack of nutrition, but also influenced by a disease called diarrhea. *Salmonella* sp. and *E. coli* are pathogenic bacteria that are found in feces of calf infected diarrhea (Kim et al. 2011). The mortality of calf due to diarrhea in Indonesia is quite high. Antibiotics is a common method for treating diarrhea. However, the method is less secure because it can cause a resistance to bacterial targets (Choct 2009), and is not friendly to the environment. Silage juice which contains organic acids, lactic acid bacteria, and secondary metabolites was capable of inhibiting *Salmonella* sp. and *E. coli* of feces of calf infected diarrhea (Nahrowi et al. 2014). Moreover, the inhibition of silage juice against *Salmonella* sp. was better than antibiotics (Gurning et al. 2013).

The use of probiotics, prebiotics or their combination to improve performance and health of calves has been reported by Frizzo et al. (2011) and Jatkauskas and Vrotniakiene (2011). However, no data was reported regarding the efficacy of silage juice as alternative antibiotic in improving performance and health of calves.

### MATERIAL AND METHODS

Starter diet was composed of corn, soybean meal, rice bran, corn gluten meal (CGM 60%), molasses, elephant grass, di-calcium phosphate and salt, and formulated according to

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standard calf requirement (NRC 2001) using Brill Formulation software. Silage juice was prepared according to Nahrowi et al. (2014). Twelve male dairy calves age 30 days were used and caged individually. The calves were allocated to one of the three treatments, i.e: R1: control diet, R2: R1 + 50 mg/kg of Chlortetracycline and R3: R1 + 0.3% of silage juice given orally. In the beginning calves were fed milk replacer as much as 10% of body weight (Davis and Drackley, 1998), and gradually was reduced and stopped at day 45, while starter diet and water were offered *ad libitum*. On day 46 - 90 calves only got starter diets as much as 3 % of body weight and water *ad libitum*. Variables measured were feed intake, body weight gain, feed efficiency, scores of feces value (Larson et al. 1977), white blood cells, hematocrit, and hemoglobin. Data from completely randomized design (CRD) were analyzed of variance (ANOVA) and if it is significantly different ( $p < 0.05$ ), Duncan test was conducted (Steel and Torrie 1991).

## RESULTS AND DISCUSSION

Feed consumption, weight gain and feed efficiency of calves received antibiotic and silage juice treatment were significantly higher compared with those of calves received control diet, and no difference was found on the parameters above between calves received antibiotic and silage juice (Table 1). Total dry matter intake ranged from 0.95 – 1.26 kg / day. The high dry matter intake of calves received silage juice indicated that the juice could stimulate the calves to eat more. Performance improvement of calves received juice was due to the role of organic acid, lactic acid bacteria, and secondary metabolites that present in silage juices. The result agrees with that of other studies in calves that reported that oral administration of *L. acidophilus* or *Bifidobacterium pseudolongum* to calves improved body weight gain and feed conversion over that control (Abe et al. 1995; Timmerman et al. 2002; Donovan et al. 2005).

**Table 1.** Feed efficiency of calves received diet treatments

Parameter	Treatments		
	Control	Antibiotic	Silage juice
Feed consumption (kg/day)	0.95 ± 0.13	1.23±0.53	1.26±0.47
Weight gain (kg/day)	0.33 ± 0.14	0.57 ± 0.46	0.51 ± 0.33
Feed efficiency	0.34±0.14	0.35±0.23	0.41±0.15

No incident diarrhea for calves received silage juice, and the fluidity score were relatively lower for calves received silage juice compared with that of control (Table 2). Indart et al. (2012) reported that multispecies and multistrain probiotics shown a tendency in favor of the lower number of calves with diarrhea ( $p > 0.09$ ). Except neutrophyl, all blood profiles of calves were not different (Table 3).

**Table 2.** Incident of diarrhea and fluidity scores of calves received treatment diets

Treatment	Diarrhea Incident (head)	Fluidity Score
Control	0	1.70
Antibiotic	1	1.66
Silage Juice	0	1.69

Neutrophyl of calves received control diet were higher compared with that of calves received silage juice and antibiotics. The neutrophyl concentration of control was in outer layer of the standard (Table 3). It indicated that unlike in silage juice, no active substance might be available in the control diet that capable of inhibiting pathogen bacteria in gastro intestinal tract.



**Table 3.** Hematology profile of Calves received diet treatments

Parameters	Standard	Treatments		
		R1	R2	R3
Erythrocyte (million mm <sup>3-1</sup> )*	5-10	3.00 ± 0.20	2.90 ± 0.20	2.70 ± 0.30
Haemoglobin (g 100 ml <sup>-1</sup> )*	8-15	8.80 ± 0.80	8.80 ± 0.40	8.40 ± 0.70
Hematocrit (%)*	24-46	25.80 ± 2.40	26.00 ± 0.90	24.80 ± 2.20
Leukocyte (thousand mm <sup>3-1</sup> )**	8-18	10.18 ± 4.70	14.50 ± 2.70	14.50 ± 7.20
Neutrophil (%)***	12-38	44.80 ± 1.07b	16.20 ± 0.58a	33.70 ± 1.16ab
Lymphocyte (%) ***	33-87	53.00 ± 1.10	83.20 ± 0.60	63.50 ± 1.20

Note: Different letters in the same row indicates significant difference (P < 0.05). \*Jain 1993, \*\* Duncan and Prasse's 2011; \*\*\*Benzamin 2007. Control (R1), antibiotic (R2), and silase juice (R3).

### CONCLUSION

Silage juice that contains organic acid, lactic acid bacteria, and secondary metabolites possesses antibacterial activity that comparable with tetra chlor in term of improving performance of calves.

### ACKNOWLEDGEMENTS

The authors wish to thank Bantuan Operasional Perguruan Tinggi Negeri (BOPTN) for granting this research and Center for Hazard Chemical Studies Laboratory, Bogor and Laboratory of Clinical Microbiology-Faculty of Veterinary Bogor Agricultural University for analytical assistance.

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