

Editor's Speech



Welcome to the very 1st issue of our quarterly PeterLabs bulletin. We always strive to provide good services, response to customers' feedback and to maintain good relationship with customers. To be in compliance with our value "PeterLabs always SHARE", PeterLabs bulletin aim to provide livestock industry producers and professionals with information on livestock production and management topics. Demand for livestock products can be moderated by socio-economic factors such as human health concerns and changing socio-cultural values. The health awareness which demands better quality and safe food is reshaping the livestock industry to produce healthier food. Hence, to meet the objective to increase safe food production efficiency and environmental sustainability, we would like to introduce animal health and nutrition products such as animal feed additives and environment maintenance products to livestock producers. In addition, we would also like to share our company's events and activities with our readers. - PW Lai

Company Introduction

PeterLabs is a dynamic company dealing with animal health care and services. We are one of the leading specialist in developing, manufacturing and marketing animal health products. Our products include feed additive premixes, antimicrobial, anthelmintics, multi-nutrient & supplement, pre-probiotic & enzymes, mould inhibitors & toxin binder, disinfectant and others. We design animal nutrition and health care products that maximize the productivity of animals and minimize the pollution of the environment.



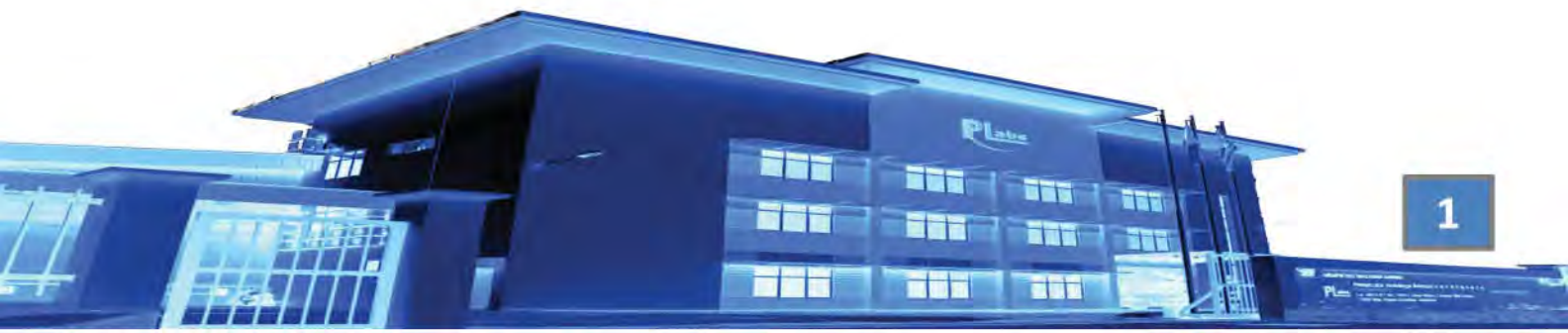
Value

"PeterLabs always SHARE..."



Highlights:

Osmofat 100 and 300
PigLIVE
5th ICAN
Exhibition, awards



OSMOFAT

Energy is as equally important as protein in feed. In livestock feed, fat supplies energy and other nutrients to animal. The use of supplemental fats and oils in animal diets as an energy source is a widespread practice in the animal feed industry. Fats derived from vegetable based raw material are safe compared to animal fat due to the risks of contamination by different microorganisms. Different fats have different fatty acids composition and this will contribute to different qualities of animal body fat and meat composition due to varying digestibility. Digestibility of certain fat is low. Osmofat is the right choice to solve fat related problems. It is an energy source made from 100% palm oil derivatives with optimal fatty acid composition, good digestibility and high palatability with pleasant aroma.

Functions of Osmofat:

- Increase energy uptake.
- Boosts feed conversion.
- Improves daily weight gain.
- Shortens the fattening period.
- Makes excellent carcass quality.
- Builds up natural resistance to disease.
- Remarkable improvement in production.
- Better digestion and water balance in the gut.
- Increases the proportion of lean meat.
- Excellent digestibility and acceptance to animal.
- Improves absorption of nutrients from diets.

Unique features of Osmofat; The following features make Osmofat unparalleled:

- High proportion of palmitic acid (C16:0). The presence of minimum 70% palmitic acid (C16:0) confirm optimizing the feed and the result is better fattening performance and carcass quality.
- Maximum iodine value 17 wijs ensure very low unsaturated fatty acid bond present in Osmofat.
- Melting points at 54-60°C ensure chemical stability and protection from auto oxidizing and creating harmful free radicals.
- Osmofat is not soggy and not rancid easily due to its granular form.

Why Osmofat, Why Malaysia:

At present, Malaysia is the second largest palm oil producer in the world. In Malaysia, there is a transparent trade in palm oil in consider of price and production. Malaysian palm oil industry is well organized by various organizations such as MPOB (Malaysian Palm Oil Board), PORAM (Palm Oil Refiners Association of Malaysia), MPOA (Malaysian Palm Oil Association), MOMG (Malaysian Oleochemical Manufacturers Group), MPOC (Malaysian Palm Oil Council), RSPO (Round Table on Sustainable Palm Oil). We have excellent infrastructure for logistics and exports. We never use recycle oil, so our fat content is always above standard. The location of our plant is very strategic, transportation to Port Klang is convenient. Latest special blending tanks and homogenizers are used in our factory.

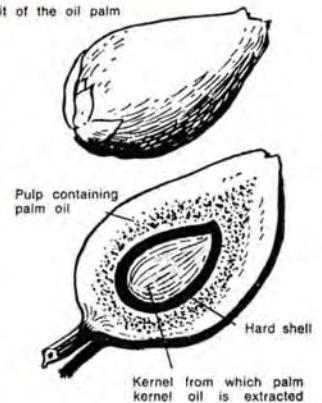
Lecithin Added Fat Powder:

Due to addition of lecithin, Osmofat have greater advantages. Lecithin consists of the phospholipids core in conjunction with glycolipids, sterols, tocopherols, carbohydrates and triglycerides. Fatty acids such as Linoleic and Linolenic acids are also structural components of lecithin. Lecithin maintains and regenerates the uniformity of bio-membrane.

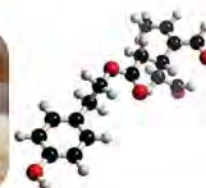
- Helps transportation of triglyceride and other nutrients. Improves absorption and utilization of nutrients. Emulsify feed fat and its distribution in intestines. Provides energy, choline, inositol and available phosphorus.
- Stimulates the process of reproduction and immune response. Acts as anti-oxidant and anti-stress agent. Improves fat utilization ability of young animals. The ultimate result is higher average final weight and improves production.



Fruit of the oil palm



There are two types of Osmofat which are Osmofat 100 and Osmofat 300. Osmofat 100 is the rumen stable fat while Osmofat 300 is the lecithinized fat for monogastric animal such as poultry and swine.



	OSMOFAT 100	OSMOFAT 300
INDICATIONS:	Increase milk yield. Prevent loss of body weight. Increases fat & protein percentage in milk. Stabilization of protein & casein. Avoid crisis of ketosis, milk fever, fatty liver and other metabolic disorders. Stimulates fertility. Optimizes energy intake. Shortens calving interval. Highly palatable. Very good digestibility. Relieves impact of heat stress. No adverse effects in the rumen.	Increase energy uptake. Shortens fattening period. Improves daily weight gain. Yields high carcass weight and improves carcass quality. Ensures longer shelf life of meat due to better resistance to oxidation. Better digestion and water balance in the gut. Better palatability and pelletability. Increases production and quality of sow's milk. Improves eggs size and quality.
SPECIFICATION:		
Total Fat Content	98% Min	98% Min
Free Fatty Acids	1% Max	1% Max
Moisture & Impurities	0.5% Max	0.5% Max
Slip Melting Point	54-60 °C	54-60 °C
Iodine Value	17 wijs Max	17 wijs Max
TYPICAL FATTY ACIDS PROFILE:		
Saturated fatty Acids:		
C14:0 Myristic Acid	Approx. 1.5%	Approx. 1.5%
C16:0 Palmitic Acid	70% Min	70% Min
C18:0 Stearic Acid	Approx. 4-9%	Approx. 4-9%
Unsaturated Fatty Acids:		
C18:1 Oleic Acid	Approx. 10%	Approx. 10%
C18:2 Linoleic Acid	Approx. 2%	Approx. 2%
Lecithin Dose Rate	-	3-6%
Dosage	400-750 g per cow/day, depending on milk yield.	Addition to feed ration : Poultry: 3-5% Fattening pig: 4-8% Sow: 8-10%
Storage Condition	Store in cool and dry place. Keep away from odoriferous materials and avoid exposing to direct sunlight.	
Packing	25kg	

“In the business world, everyone is paid in two coins: cash and experience. Take the experience first; the cash will come later.” ~Harold Geneen



The Performance of Swine Breeding Herds in Malaysia during 2011

Dr. Paiboon Sungnak, D.V.M., Thailand.



Since 2009 swine consulting veterinarians from Thailand, aggregated under the name of InterCons 3P, in collaboration with PeterLabs has introduced a new computerized recording system known as PigLIVE, to pig producers in Malaysia. The system has been constructed by Prof. Preeyaphan Udomprasert from Kasetsart University in Thailand and has been used as a standard record keeping system for majority of Thai producers for years. Once data recording is completed, PigLIVE will not only demonstrate actual performance to Malaysian producers but also allow them to effectively dispatch factors limiting farm productivity. Nowadays more than 30 medium to large farms in Malaysia are using PigLIVE for their production controls. The objective of their brief report is to compare production figures of pig farms in Malaysia with those of average pig farms in Thailand so that the opportunity for improvement can be realized (Table 1). Malaysian figures were 12 month-rolling averages summarized from 19 farms (744 sows / farm on average and 14,136 sows in total).

Table 1. Production figure of swine breeding herd in Malaysia during 2011

Breeding Performance	Unit	Average*	TOP 5 Farms*	Min.-Max.*	Thailand Breeding Performance
Repeat Service	%	21.47	11.00	6.8-35.9	<10
Weaning-1st Service Interval	Days	8.51	6.40	6.4-14.7	<6
Sows Bred by 7 Days	%	82.51	91.64	40.4-95.0	>95
Avg. Parity of Farrowed Sows	Parity	4.69	3.76	3.5-6.3	3.2
Average Pigs / Litter	Pigs	10.39	11.08	9.5-11.7	>12.5
Average Pigs Born Alive / Litter	Pigs	9.84	10.50	8.8-11.0	>11.5
Still Born Pigs	%	4.63	9.44	0.3-13.8	<5.5
Mummies	%	0.71	0.00	0.0-2.6	<1.5
Farrowing Rate	%	71.35	83.46	53.6-86.7	>87
Litters / Mated Female / Year	Litters	2.02	2.32	1.52-2.40	>2.35
Avg. Pigs Weaned / Litter Weaned	Pigs	9.13	9.74	8.40-10.1	>10.5
Pre-Weaning Mortality	%	8.92	4.46	3.6-16.2	<8
Avg. Weaning Weight	Kg	7.24	8.22	6.0-8.8	>7.5
Avg. Lactating Length	days	26.31	24.40	23.9-29.2	23-25
Pig Weaned/Mated Female/Year	Pigs	18.08	21.18	14.1-23.3	>23
Average Parity	Parity	3.79	2.68	2.2-5.7	2.8
Replacement	%	39.55	61.10	7.2-73.5	40-45
Culling Rate	%	25.54	45.42	2.0-52.8	40-45
Avg. Parity Of Culled Sows	Parity	5.66	6.90	4.1-6.7	>5.5
Sow Death	%	8.31	2.08	1.3-20.9	<5

*Data obtained from PigLIVE software users.

Major reproductive problems in breeding herd in Malaysia

The reproductive process consists of many phases. All of these phases contribute to success of failure in producing live offspring.

There are five major reproductive problems that commonly found in breeding herd in Malaysia:

- High repeat services
- Low total born pig and pig born alive
- Low farrowing rate
- High sow death
- Longer wean to first service interval day

In the next issue, I will explain causes of reproductive problems that commonly found in breeding

herd. At the same time I will provide you protocols to solve those above problems.



ANNUAL DINNER 2012

The annual dinner of PeterLabs Holdings Berhad was held at its office in Nilai on 10 Feb 2012 from 5.30 to 9.30 pm. All the directors and employees joined the big party. The party started with the energetic and loud lion dance performance that really heat up the evening! It was then followed by a welcome speech from Ms. Aliah, the representative of the organizing committee and last but not least Mr. Lim Tong Seng, the Managing Director of PeterLabs Holdings Berhad.



Next was the long awaited dinner time! Food served including satay, curry mee, fried mee and mihun, roast lamb, roast chicken, fruits, desserts and beverages. Everybody showed satisfied faces enjoying the food.



After the meal, karaoke competition begun where Nepal, Vietnam and Malay songs were sang. This was followed by lucky draw where plasma television was the grand prize and others including washing machine, video camera and other electrical appliances. Every employee went home with a prize that night.



There was also a singing performance by a famous local singer who sang some great oldies to entertain everybody. After that, the entertainment continued with the game session. Few lucky employees were selected to perform the 'Chicken Dance' on stage and their dance moves amused everybody! In the end, all the 'Chicken Dance' performers were rewarded with a bread toaster for their great efforts. Moreover, 3 staffs were given the full attendance award. Lastly, group photo was taken for memory. The annual dinner ended with great success and everybody went home happily.



EXHIBITIONS

PeterLabs at the Exhibitions for the year of 2011

What a year it has been... We have been travelling to at least five different countries for exhibitions and seminars. We meet new people, extending our network as well as improving our social skills. What more can we ask for in year 2012?

Among the exhibitions that we have participated are the 7th International Poultry Show and Seminar at Bangabandhu International Conference Centre, Dhaka, Bangladesh on 25-27 March 2011, Livestock Asia Expo and Forum 2011 at Kuala Lumpur Convention Centre, Kuala Lumpur, Malaysia on 4-6 October 2011, Vietstock 2011 Expo and Forum at Saigon Exhibition and Convention Centre, Ho Chi Minh City, Vietnam on 9-11 November 2011 and Livestock Philippines 2011 Expo at SMC Convention Centre, Manila, the Philippines on 8-10 December 2011. We have also attended exhibitions in Pakistan and Iran, the National Poultry and Food Expo 2011 at Lahore Expo Center, Lahore, Pakistan on 16-17 September 2011 and the 10th International Exhibition of Animal Husbandry, Fishery and Veterinary Equipment, Isfahan, Iran on 29 November - 2 December 2011.

Besides introducing our company profile and products, the purposes to participate in these exhibitions and seminars are to widen our company networking with people from different places. Among our main aim is to find distributors and customers, to promote and sell our products. From all these exhibitions, we met a lot of different people from all around the world; people who work in the same industry as we do such as integrators, feed millers, farmers, veterinarians, processors, retailers, importers, distributors, many more. Every time we meet new people we get to share more and spread the news about our products to them. Moreover, we also get to learn more about the different technologies and products from different countries.

On top of that, we have also conducted some seminars to share and promote our products in and out of our countries. From all the seminars, we get good responses from all parties. In these exhibitions and seminars, we not only share information, we also give out samples to the visitors and participants to let them have an insight of our products.



EXHIBITIONS



BANGLADESH

This coming year, our company will participate and attend more and more exhibitions to gain a wider coverage in networking, distribution and other aspects as well. We are striving to be better than the year before. We will bring the best out for everyone.

As we are now entering a new year, a new phase, we wish you all a better year ahead.



THE PHILIPPINES



KLCC, MALAYSIA



KLCC

AWARDS

Awards and achievements in year 2011:

1. Malaysian Livestock Industry Awards 2011 - Outstanding Animal Health Provider.
2. Best @ Show Awards - Most Popular Booth at Livestock Asia Expo & Forum 2011 Kuala Lumpur.
3. Named to the International Business Times List of 2011 Top 1000 World's Fastest Growing Companies.
4. SME 100 Malaysia's Fast Moving Companies 2011.



5th INTERNATIONAL CONFERENCE ON ANIMAL NUTRITION 2012 (5th ICAN)

INNOVATIONS IN ANIMAL NUTRITION AND
FEEDING FOR LIVESTOCK PRODUCTION | 24 – 26 April 2012
Equatorial Hotel, Melaka

PeterLabs will be participating for the coming 5th International Conference on Animal Nutrition 2012 (ICAN) at Equatorial Hotel, Melaka on coming 24-26 April 2012. ICAN is organized by Malaysian Agricultural Research and Development Institute (MARDI), co-organized by Department of Veterinary Services (DVS), Universiti Putra Malaysia (UPM), Federal Land Development Authority (FELDA) and Rubber Industry

Smallholders Development Authority (RISDA), supported by Ministry of Agriculture and Agro-based Industry (MOA). The conference provides a platform for facilitating interactions between researchers and commercial producers on recent advances in animal nutrition and feed industry. PeterLabs will contribute two presentations, an invited speaker Dr Wang Chong from China and Dr Lai Pui Wah will present their scientific papers during the conference.

Effect of dietary rumen-protected choline on milk performance and metabolite profiles of dairy cows

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Abstract

Choline is a necessary nutrient and plays an important role in dairy cows. Dairy cows experience a dramatic physiological and metabolic adaptation during the transition and peak lactation period by decreased dry matter intake, while the nutritional requirements increase rapidly. Rumen-protected choline (RPC) products have been fed

to periparturient dairy cows to increase the supply of choline to the small intestine with the goal to increase milk or component yield or to alleviate the development of fatty liver syndrome. The rumen degradation rate of RPC IM-CHOL is 14.4% within 48 h and around only 1% within 24 h. Results suggested that IM-CHOL addition tended to increase milk yield and

improve blood metabolic parameters during transition dairy cows, and feeding 30 g/d of RPC may be optimal. Twenty grams per day of IM-CHOL can increase daily milk yield (0.5-2 kg) and promote milk components in varied degrees with a better effect on milk yield.

Palm kernel meal and enzyme application in poultry diets

P.W. Lai

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Abstract

Palm kernel meal (PKM) is the residue of oil extraction from the palm fruit kernels. Because PKM is produced in large amount, and owing to the rising cost of imported conventional vegetable protein feedstuffs, much interest has been developed on this local ingredient for their utilization in animal feed. However, due to its low levels of

essential amino acids, high fiber, grittiness and coarse texture conferred on them by their branched polysaccharides components, PKM inclusion in poultry feeding is limited. To cope with the nutritional problems arising from dietary PKM, two possible solutions are recommended; (1) formulate the poultry feed based on digestible

nutrients (particularly on amino acids) and ME, and (2) enzyme applications to improve the nutritive value of PKM. This paper reviews the potential of this plentiful by-product, its inclusion rate in poultry diets, enzymes supplementation or enzymatic treatments to overcome the adverse effects of PKM on poultry performance.



PeterLabs Holdings Berhad



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编辑欢迎词

欢迎翻阅PeterLabs第一期的期刊。我们一直努力为客户提供良好的服务，响应客户的信息，并与客户保持良好的关系。为了符合我们的价值“PeterLabs经常分享”，PeterLabs创刊的宗旨主要在提供有关畜牧业生产和管理课题的信息给畜牧业生产者和专业人士。社会经济因素如民众对健康的关注和文化价值的变化皆会影响畜产品的需求量。健康意识提升了食品的品质和安全的要求改变了畜牧业的景观，必须生产优质的健康食品，以符合消费者的需求。因此，为了要达到提高生产安全食品的效率 and 持续性环保的目标，我们为畜牧业者介绍动物保健和营养产品，如动物饲料添加剂及环境维护产品。此外，我们也想在此与读者们分享我们公司的活动和项目。

公司简介

PeterLabs是一个提供动物健康和营养产品及服务的公司，我们是开发，制造和销售动物健康和营养产品的专家之一。我们的产品包括饲料添加剂预混料，抗菌，驱虫药，多种营养补充剂，益生元，益生菌，酶，霉菌抑制剂和毒素结合剂，消毒剂和其他产品。我们设计的动物营养和保健产品可大幅度地提高动物生产力和减少对环境的污染。



价值观

“PeterLabs经常分享”



精彩内容:

- Osmofat 100 和 300
- PigLIVE软体
- 第五届国际动物营养研讨会(5th ICAN)
- 展览和奖状



OSMOFAT

在饲料中，能量和蛋白质同样重要脂肪为动物提供能量及其他营养成分。在动物饲料中添加脂肪和油脂作为能量的来源是一种普遍的做法。由于动物脂肪内不同的微生物污染风险，源自植物性的脂肪比动物性脂肪安全。不同的脂肪由不同的脂肪酸组成，这将促使不同的消化率，造成动物体内不同的脂肪和肉组成。某些脂肪的消化率比较低。

Osmofat是解决有关脂肪问题的正确选择。它是一种100%由棕榈油衍生物制成的能量来源，含最佳的脂肪酸组成，消化率高，适口性和气味佳。

Osmofat的功能：

- 增加能量的摄取。
- 提高饲料转换率。
- 提高日增重。
- 缩短肥育期。
- 提高屠体品质。
- 建立对疾病的自然抵抗力。
- 显著地改善生产量。
- 较佳的消化和平衡肠道中的水分增加瘦肉的比例。
- 消化率和动物接受程度佳。
- 改善饲料营养的吸收。

Osmofat的特征：

以下特点使Osmofat优异：

- 高比例的棕榈酸 (C16:0)。至少70%的棕榈酸 (C16:0) 证实可优化饲料，导致更佳肥育性能和屠体品质。
- 最高的碘价17 wijs保证Osmofat含非常低的不饱和脂肪酸。
- 熔点在54-60°C之间，确保化学稳定性和保护防止自动氧化和产生有害的自由基。
- 由于其颗粒的形状，Osmofat不潮湿和不容易腐坏。

为什么要使用 Osmofat：

- 目前，马来西亚是世界第二大棕榈油生产国。
- 在马来西亚，棕榈油贸易的价格和生产都是透明化的。
- 马来西亚的棕榈油行业以及各种组织有MPOB (马来西亚棕榈油局)，PORAM (马来西亚棕榈油炼油协会)，MPOA (马来西亚棕榈油协会)，MOMG (马来西亚化学油脂制造商组织)，MPOC (马来西亚棕榈油协会)，RSPO (可持续棕榈圆桌会议)。
- 我们有优良的物流和出口设施。
- 我们绝不使用回收油，所以我们产品的脂肪含量高于标准。

- 我们设厂的位置地点适中，运输到巴生港口的交通方便。
- 我们的工厂使用最新的混合和均质机。

含卵磷脂之油粉：

由于额外添加卵磷脂，Osmofat含有更多的优势。卵磷脂的磷脂结合糖脂，固醇，维生素E，碳水化合物和三酸甘油酯组成。脂肪酸如亚油酸和亚麻酸也是卵磷脂的结构部件。

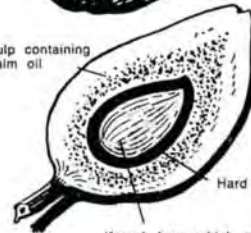
- 卵磷脂维护和重建生物膜的均匀性。
- 帮助运输三酸甘油酯和其他营养物质。
- 改善营养物质的吸收和利用。
- 乳化饲料中的脂肪和其在肠道内的分布。
- 提供能量，胆碱，肌醇和有效磷。
- 刺激的繁殖和免疫反应过程。
- 作为抗氧化剂和抗紧迫剂。
- 改善小动物的脂肪利用能力。
- 最终的结果是更高的平均最终体重和改善生产。



Fruit of the oil palm



Pulp containing palm oil

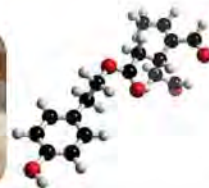


Hard shell

Kernel from which palm kernel oil is extracted



我们推广两种Osmofat，那就是Osmofat 100和Osmofat 300。Osmofat 100在瘤胃内稳定，反之Osmofat 300是适合用于喂饲单位动物如鸡和猪只的卵磷脂化油粉。



	OSMOFAT 100	OSMOFAT 300
优点:	增加产乳量。 防止体重的损失。 增加牛奶中的脂肪和蛋白质百分比。 稳定蛋白和酪蛋白。 预防酮酸血症，乳热，脂肪肝等代谢疾病。 刺激生育。 优化能量的摄取。 缩短产犊间隔。 适口性佳。 消化率佳。 舒缓热紧迫的影响。 对瘤胃无不良影响。	增加能量的摄取。 缩短肥育期。 提高日增重。 提高屠体重量和品质。 由于更好的抗氧化性质，确保肉质更长的货架寿命。 较佳的消化率和平衡肠道中的水分。 增加颗粒结合的质量和适口性。 提高母猪的生产和乳汁质量。 提高蛋的大小和质量。
产品规格:		
总脂肪含量	最低98%	最低98%
游离脂肪酸	最高1%	最高1%
水分和杂质	最高0.5%	最高0.5%
滑动熔点	54-60 °C	54-60 °C
碘价	最高17 wijs	最高17 wijs
独特的脂肪酸含量:		
饱和脂肪酸:		
C14:0 肉豆蔻酸	大约 1.5%	大约 1.5%
C16:0 棕榈酸	70% Min	70% Min
C18:0 硬脂酸	大约 4-9%	大约 4-9%
不饱和脂肪酸:		
C18:1 油酸	大约 10%	大约 10%
C18:2 亚麻油酸	大约 2%	大约 2%
卵磷脂添加量	-	3-6%
用量	根据产乳量，每头每日400-750克。	在日粮内添加： 家禽：3-5% 肥育猪：4-8% 母猪：8-10%
储存条件	存放在阴凉干燥的地方。远离含气味之材料，避免暴露于直射阳光。	
包装	25公斤	

"In the business world, everyone is paid in two coins: cash and experience. Take the experience first; the cash will come later." ~Harold Geneen



2011年马来西亚种猪性能

Paiboon Sungnak兽医，泰国



自2009年以来，来自泰国的猪只咨询兽医，成立了InterCons3P并与PeterLabs合作，为马来西亚的养猪户推出了新的电脑化记录系统，简称为PigLIVE。该系统经由Kasetsart大学Preeyaphan Udomprasert教授建造，并已在多年以来被大部分的泰国养猪户使用为一个标准的纪录保存系统。当数据记录完成后，PigLIVE不仅将实际的表现呈现于马来西亚的生产者，也使他们能够有效地为限制生产力的因素作调整。目前，超过30家中，大型的马来西亚农场使用PigLIVE以控制生产。他们的简要报告的目的在于比较马来西亚猪场的生产值和泰国的一般猪场，以了解改善的机会（表一）。马来西亚的数值分别为19个农场12个月内的平均值（平均744头母猪/农场，共14136头母猪）。

表一，2011年马来西亚种猪生产数值

生产性能	单位	平均*	前5名农场*	最低-最高*	泰国生产性能
重发情	%	21.47	11.00	6.8-35.9	<10
离乳至第一次发情的间距	天数	8.51	6.40	6.4-14.7	<6
在7天内配种的母猪	%	82.51	91.64	40.4-95.0	>95
分娩母猪之平均胎数	胎数	4.69	3.76	3.5-6.3	3.2
平均仔猪/胎	头数	10.39	11.08	9.5-11.7	>12.5
平均活仔猪/胎	头数	9.84	10.50	8.8-11.0	>11.5
死胎	%	4.63	9.44	0.3-13.8	<5.5
黑胎	%	0.71	0.00	0.0-2.6	<1.5
分娩率	%	71.35	83.46	53.6-86.7	>87
胎数/配种母猪/年	胎数	2.02	2.32	1.52-2.40	>2.35
平均离乳仔猪/胎	头数	9.13	9.74	8.40-10.1	>10.5
离乳前死亡率	%	8.92	4.46	3.6-16.2	<8
平均离乳体重	公斤	7.24	8.22	6.0-8.8	>7.5
平均哺乳期	天数	26.31	24.40	23.9-29.2	23-25
离乳头数/配种母猪/年	头数	18.08	21.18	14.1-23.3	>23
平均胎数	胎数	3.79	2.68	2.2-5.7	2.8
替换率	%	39.55	61.10	7.2-73.5	40-45
淘汰率	%	25.54	45.42	2.0-52.8	40-45
平均淘汰母猪之胎数	胎数	5.66	6.90	4.1-6.7	>5.5
母猪死亡率	%	8.31	2.08	1.3-20.9	<5

*数据源自PigLIVE软体用户。

马来西亚繁殖猪群中主要的生殖问题

生殖过程包含许多阶段。所有这些阶段的都会促成生产存活后代的成败。在马来西亚，主要有五个比较普遍的生殖问题：

- 总出生仔猪和存活仔猪头低
- 分娩率低
- 母猪死亡率高
- 离乳至第一次配种时间距较长

在下一次的课题，我会解释在种猪群中普遍发生的生殖问题之原因。同时，我会为您提供解决上述问题的方案。



年度晚宴2012

PeterLabs于2012年2月10日在Nilai举办年度晚宴，以慰劳全体员工的辛劳。此项晚宴获得所有董事与全体员工的踊跃参与。虽然年关已过，但公司请来的舞狮团依然成功把全场气氛炒热！接着，晚宴筹委会代表Aliah小姐致欢迎词后，董事经理林宗成先生也向所有员工勉励了一番。



吃完后，参加Karaoke比赛的员工们上台演唱尼泊尔，越南以及马来歌曲，让大家听出耳油。接着，同样让人期待的幸运抽奖游戏开始了，送出了包括负离子电视，洗衣机，摄录机等等的大礼，人人都满载而归。



另外，公司也请来了本地著名歌手献唱经典名曲为晚宴助兴。紧接着的游戏时间，参加者们上台使出了浑身解数表演“Chicken Dance”，把气氛推向了另一个高潮！每位参加者也各自得到了一台烘面包机作为奖励。此外，三位员工也获得了全勤奖。最后，摄影师为大家拍了一张全体照，而晚宴亦划上了一个完美句号。



然后，大家最期待的晚餐时间终于到了！餐桌上摆满了各式各样的食物，有沙爹，咖喱面，炒面，炒米粉，烤鸡，烤羊，水果，点心以及各式饮料，大家吃得不亦乐乎！



展览会

在2011年PeterLabs所参与的展览会

2011年是充实的一年。我们参与了至少五个不同国家的展览和研讨会，认识新的客户，扩张我们的人脉同时也增强了我们的交际技巧。在这新的一年中，我们还可以再期待什么呢？

其中，我们所参与的展览包括2011年3月25日至27日在孟加拉达卡班加班国际会议中心的 7th International Poultry Show and Seminar，2011年10月4日至6日在马来西亚吉隆坡会议中心的Livestock Asia Expo and Forum 2011，2011年11月9日至11日在越南胡志明市西贡国际展览和会议中心的Vietstock 2011和2011年12月8日至10日在菲律宾马尼拉SMC会展中心的Livestock Philippines 2011 Expo。我们也在2011年9月16至17日参加在巴基斯坦拉合尔博览中心的The National Poultry and Food Expo 2011和2011年11月29至12月2日在伊朗伊斯法罕的the 10th International Exhibition of Animal Husbandry, Fishery and Veterinary Equipment。

除了推广本公司和产品，参加展览和研讨会可在不同的国家扩张人脉，寻找代理商和客户。从这些展览中，我们会见来自世界各地的人；他们都是和我们同行的一贯作业的畜牧业生产商，饲料生产商，农民，兽医，加工商，零售商，进口商和分销商。除了跟他们分享我们产品之外，我们也可以获得关于其他国家的技术和产品方面的资讯。

此外，我们也在本地和国外举办了进行一些专题研讨会，与业者交流和推广我们的产品。从所有的研讨会中，我们得到来自各方的良好反应。在展览会和研讨会，我们不仅分享信息，我们还发出了样品，让来访者和参与者更加了解我们的产品。在这来临的一年，我们将会参与更多的展览和研讨会来扩展我们的业务，把产品分布到其它领域。我们会尽力去达到比过去更好的成绩，也希望在这新的一年中，与大家迈向更好的一年！



展览会



BANGLADESH



THE PHILIPPINES



KLCC



KLCC, MALAYSIA

奖项

在2011年所得的奖项和成绩:

1. 2011马来西亚禽畜业奖 - 杰出动物保健提供商
2. 吉隆坡Livestock Asia Expo & Forum 2011最受欢迎展位。
3. 国际商业时报2011年前1000世界成长最快之公司。
4. 2011 SME 100马来西亚快速成长之公司



5th INTERNATIONAL CONFERENCE ON ANIMAL NUTRITION 2012 (5th ICAN)

INNOVATIONS IN ANIMAL NUTRITION AND FEEDING FOR LIVESTOCK PRODUCTION

24 - 26 April 2012
Equatorial Hotel, Melaka

(DVS)，马来西亚博特拉大学 (UPM)，联邦土地发展局 (FELDA) 和橡胶工业小农发展管理局 (RISDA)，由农业和农基工业部 (MOA) 支助。这次的会议为研究人员和商业生产者提供一个交流平台，可以促进动物营养和有关饲料工业的最新进展。PeterLabs邀请了来自中国的王翀博士和本公司的黎配华博士在会议期间发表两篇的科学文章。

2012年第五届国际动物营养研讨会 (ICAN)

PeterLabs将参加来临的2012年4月24日至26日在马六甲Equatorial酒店举办的2012年第五届国际动物营养研讨会 (ICAN)。ICAN是由马来西亚农业研究和发展研究所 (MARDI) 举办，协办机构包括兽医局

瘤胃保护型胆碱对奶牛产奶性能和代谢产物之影响

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摘要

胆碱，对于奶牛是一种必需的养分。在过渡期和哺乳期高峰期间，奶牛会遇到巨大的生理和代谢适应期，干物质采食量会下降，然而对营养的需求却迅速地增加。喂饲初产奶牛瘤

胃保护型胆碱 (RPC) 产品可增加小肠内胆碱的供应，以提高牛奶或组成份产量或减轻脂肪肝综合征的发展。RPC IM-CHOL在48小时内的瘤14.4%，在24小时之内只有1%左右。结果显示

IM-CHOL在过渡期间，有增加奶牛产奶量和改善血液代谢参数的趋势，最佳每日喂饲30克。每日喂饲20克的IM-CHO可增加牛奶产量 (0.5-2公斤)，并改善牛奶成分与牛奶产量的效果更佳。

在家禽日粮中棕榈仁粕和酶的应用

P.W. Lai

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摘要

棕榈仁粕 (PKM) 是提取棕榈果仁油的残留物。国内大量地生产PKM，相反的进口植物性蛋白质饲料原料的成本却不断地上升，很多业者对于开发这种本土原料和其在动物饲料中的使用产生浓厚的兴趣。

然而，由于其必需氨基酸的含量低，高纤维，砂性和粗糙的特性赋予其分支的多糖成分，在家禽饲料中PKM的添加量是有限的。以应付PKM所产生的营养问题，建议两个解决方案：(1) 以可消化养分 (尤其是氨基酸) 和ME为基础调配家禽饲料配

方，(2) 应用酶以提高PKM的营养价值。本篇报告主要在探讨PKM在家禽饲料中的添加量，酶的添加或使用酶作前处理以克服PKM对家禽性能所带来的不利影响。



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