

Concentrated Omega-3 Fatty Acid Supplement from Pure Filtered Scottish Salmon Oil

Omega-3 oils have long been known to be beneficial for all species. The important and active components are the long chain polyunsaturated fatty acids EPA and DHA.

Modern diets are often rich in omega-6 but deficient in essential omega-3 fatty acids. Omega-3 fatty acids are important to maintain fertility and health and including OPTOMEGA in pig diets will help correct the essential fatty acid balance. Fertility of all species is improved through feeding omega-3, helping to reduce embryo loss index as well as improving the viability of young animals through improved immunity and colostrum quality.

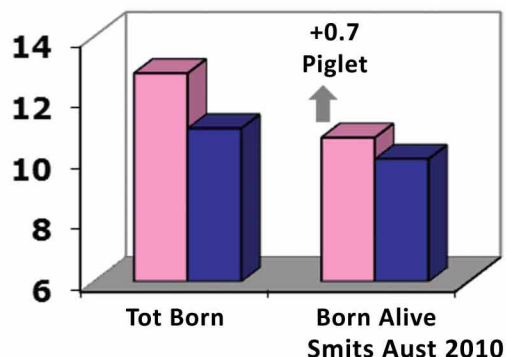
OPTOMEGA is available as a liquid 100% salmon oil or as a 50% salmon oil dry powder.



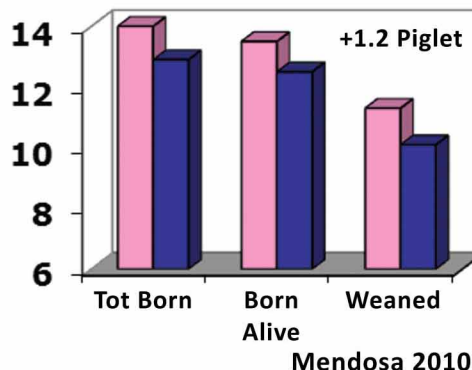
The key benefits are:

- Improves female fertility in all species
- Helps reduce embryo loss particularly in older sows
- Improves young animal vitality
- Stronger more uniform animals at weaning
- Can help improve bones
- Boosts hormone production and immunity naturally
- Enhances sperm quality, quantity and motility
- Raises omega-3 DHA and EPA in meat

**Effect of Salmon Oil on
Older Sows (Parity 4-7)**



**Effect 0.8% Fish Oil in Sow
Diet on Piglet Numbers**



The source of the omega-3 is critical to ensure the correct level of PUFAs (poly-unsaturated fatty acids) EPA/DHA is fed. OPTOMEGA does not rely on vegetable sources which require further metabolism by the pig, but uses pure filtered Scottish salmon oil which is readily available. Many farmers understand the benefits of fishmeal, one of the key components being the PUFA's that it contains – now available from OPTOMEGA.

PUFAs cannot be synthesised in the body in sufficient quantities and must be fed. The source of oil is vital.

Application

Include in feed at the following levels sows from at least day 60 of pregnancy until 1 month after mating 20 kg OPTOMEGA/tonne or 50 g OPTOMEGA /head/day.

Boars continuously 20 kg OPTOMEGA/tonne or 80 g OPTOMEGA /head/day.

Growing pigs up to 60 kg 20 kg OPTOMEGA /tonne.

Above 60 kg 10 kg OPTOMEGA /tonne.

Time to look into OPTOMEGA!



Zigbir®, Complete Performance Enhancer

Global trend

Nowadays, Natural Growth Enhancers (NGEs) are commonly included in feed and water for poultry to prevent gut infections and enhance overall performances with reducing the medication costs. NGEs are promoted as potential substitutes to antibiotics, which are used for growth promotion.

The use of antibiotics due to their residues in food and the resistance of some pathogens (ie, Salmonella, Campylobacter, E.Coli, among others) in animals and humans, turned into a topic of immense interest in the recent years. Antibiotic was a great discovery for animal production in the 1940'/1950's, in the late 1990's in Europe, the pressure to remove antibiotic growth promoters (AGPs) was gradually increasing. AGPs have even been banned by the European Union since 2006 in feed and also by an important fast food chain in USA. Unfortunately, in animal production and especially in poultry, the misuse and the overuse of antibiotics have lead to the emergence of bacteria resistances in animals.

The restriction on the use of AGPs resulted in a negative impact on poultry performance. Undigested feed is a potential substrate for microbial fermentation. The use of poorly digested ingredients runs the risk not only of poor performance, but there is an additional danger from microbial overgrowth and subsequent disease/intestinal disorders. So, NGEs became a pragmatic option to substitute antibiotic use for enhancing growth.



Benefits of natural performance enhancer

- Balances gut bacterial flora.
- Reduces the nutrients available for pathogens.
- Improves growth performances and feed efficiency.
- Improves food safety.
- Enhances animal welfare by decreasing all kinds of stress.

Ideal performance enhancer

- Should be effective & economical for regular use.
- Should not be absorbed from the gut into edible tissue (residual effect).
- Should not be involved with transferable drug resistance/cross- resistance.
- Should be readily bio-degradable and nontoxic to birds and human handlers.

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☐ Helps in better utilization of nutrients

☐ Counteracts ill effects of fungal toxins

☐ Counteracts ill effects of chemical toxins

“Andrographolide” The wonder phytochemical in Zigbir®

Improves bile flow

Better bile flow supports optimum utilization of fat, thereby optimum weight gain, feed conversion, utilization of fat soluble vitamins & pigment (xanthophyll).

Better Choloretic effect

Andrographolide extends better Choloretic effect compared to Silymacin with respect to bile flow, bile salts, cholic acids and deoxycholic acid. (Shukla et al 1992, Planta medica, 58,146 – 149)

Better liver metabolism

Andrographolide treatment significantly reduces sleeping time (induced by Pentobarbitone sodium), indicates enhancement in process of liver metabolism.

Treatment Groups	Dose (mg/kg)	Bile Flow Rate (Mean ± SE)*
Control	-	21.83 ± 1.27
Andrographolide treatment	80	35.49 ± 1.51

*Bile flow was measured as mg/5min/100 g body weight

(Ref: G. S. Tripathi & Y. B. Tripathi - Phytotherapy Research, Vol. 5, 176-178 (1991))

Treatment Groups	Dose (mg/kg)	Sleeping Time (Mean ± SE)
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Andrographolide treatment	80	31.00 ± 2.29

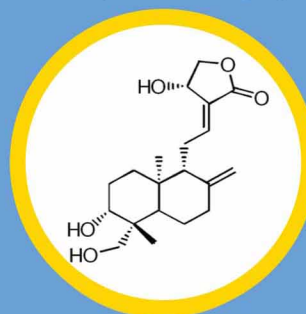
(Ref: G. S. Tripathi & Y. B. Tripathi - Phytotherapy Research, Vol. 5, 176-178 (1991))

Major constituent in Zigbir®

Andrographis paniculata



Active Principle: Andrographolide



Zigbir®

is readily bio-degradable
is safe to birds and human handlers
is not involved in drug resistance

mixes well with feed
is thermally stable
enhances the performance effectively & economically

Improves gut metabolism: Activates intestinal brush border membrane-bound hydrolases viz. lactase, maltase and sucrase in all three regions of small intestine (viz. duodenum, jejunum and ileum).

Oral administration of *Andrographis paniculata* accelerates intestinal digestion & absorption of carbohydrates by activating intestinal disaccharidases. (Ref: Choudhary BR, Poddar MK; Methods Find Exp Clin Pharmacol, 1985 Dec; 7 (12): 617-21).

Improves xanthophyll pigmentation: Premium prices are received for eggs of guaranteed high NEPA number (National Egg & Poultry Association standard for pigmentation). Many consumers still associate yellow shank and skin colour of broilers with healthy chicken. (Source : Scott et al., 1982)

Improvement hepatic detoxification: Significant increase in levels of Acid soluble sulphydryl (-SH) content, Cytochrome P450, Cytochrome P450 reductase, Cytochrome b5 reductase, Glutathione S-Transferase, DT-diaphorase & Superoxidase dismutase indicate improvement in process of hepatic detoxification. (Singh et al, (2001) Phytoether. Res. 15, 382-390).

Usage

- To optimize body weight gain, FCR & livability in commercial broilers. While, uniform sexual maturity, optimum egg production, FCR, livability and shell thickness in commercial layers and breeders.
- To optimize hepatic functions including etoxification.

Mixing Rate: 250 g per ton of feed.

Please ensure thorough mixing.

During high risk period: Depending on the quality of feed ingredients and atmospheric moisture content, the mixing rate may be altered up to 400 g per ton of feed or as suggested by nutritionist.

Recommendation

Broilers and Layers: From day one continuously, till marketing.



Packaging size: 25 kg bags, 1 L and 5 L bottle

EXHIBITION

Livestock Asia Expo & Forum 2013 Kuala Lumpur

After the participation of a few exhibitions for the past few months in other countries, finally, the last exhibition that we have participated, the Livestock Asia 2013, on 24-26 September 2013, which was hosted in Malaysia. This exhibition bring together thousands of owners, processors, veterinarians, breeders, farmers, feed millers and managers from across the country to learn and share the new experiences in their professions.

This year, we have invited our principals from abroad as far as Denmark, France, Germany, India and Thailand. Our principals that participated at the exhibition are Jorenku (Denmark), Neovia (France), BioAktiv (Germany), Zeus Biotech (India) and Novus International (Thailand). The principals' technical and sales personnel have shown their full support to assist us to distribute, present, and share their knowledge about the products to our clients and some potentials.

At the exhibition, we have managed to meet up with our clients from Bangladesh, Iran and Thailand. They have bring along their clients from different districts in their countries to meet with us to share and discuss with us about our products and their farm performance. During the three days exhibition, we have also able to meet some potential clients from China, Taiwan, Pakistan, Iran, Bangladesh, India, Indonesia, Vietnam, Thailand and etc.



SEMINAR

There were some programs going on during the exhibition, such as seminar on the related to animal production, health and management. We have invited and sponsored a few speakers abroad and local to present and share some useful knowledge in the seminar.

- Cost saving on protein nutrition in poultry, by Ms. Kitima Jindamongkon (Thailand).
- 2012 swine breeding herd performance of PigLIVE users in Malaysia by Dr. Paiboon Sungnak (Thailand).



- Replacing antibiotics in broiler chicken feeding under the hot and humid tropical conditions, by Prof. Dr. Zulkifli Idrus (Malaysia).



AWARD

This year, we were nominated and won the Malaysian Livestock Industry Award 2013 – “Outstanding Product Innovation: Animal Health Product” and; at the end of the exhibition, we also won “The Most Informative Booth” during the exhibition.



At the end of this year, we will go to Yangon, Myanmar to participate another livestock exhibition, Agrilivestock Myanmar 2013, on 2-4 December 2013, which is the first international industry-focused event in Myanmar that will complement the growth of the animal industry, grain, feed production, aquaculture and agriculture sectors.



从纯化过滤苏格兰三文鱼油萃取的浓缩Omega-3脂肪酸添加剂

Omega-3脂肪酸早已被公认有益于所有的动物，主要和活化的组成有长链多元不饱和脂肪酸的EPA和DHA。

现今的饲料往往含有丰富的omega-6，但缺乏必要的omega-3脂肪酸。Omega-3脂肪酸主要是维持繁殖性能和健康，添加OPTOMEGA在猪只日粮中有助于平衡必需脂肪酸。喂饲omega-3脂肪酸可改善所有动物的，繁殖性能，有助于降低胚胎流失指数以及经由提高免疫力和初乳质量提高幼畜的生存能力。

OPTOMEGA可作为100%液状的三文鱼油或50%的三文鱼油粉。

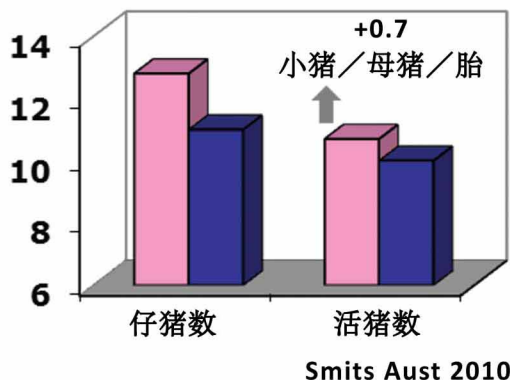


主要的益处是：

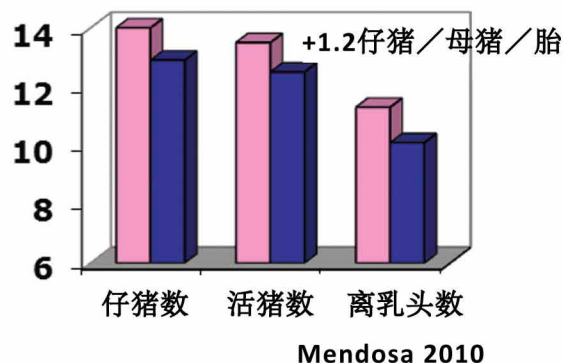
- 提高母畜的繁殖能力
- 有助于减少尤其是老母猪胚胎的流失
- 提高幼畜的生存能力
- 离乳时，动物更健康 and 体型更均匀
- 可以帮助改善骨骼
- 自然提升荷尔蒙的生产和免疫力
- 提高精子的品质、数量和活力
- 提高肉里的omega-3 DHA和EPA



三文鱼油对老母猪之影响
(4-7胎)



在母猪日粮内添加0.8%鱼油
对仔猪数量之影响



Omega-3的来源是关键，以确保喂饲正确含量的多元不饱和脂肪酸EPA/DHA。喂饲OPTOMEGA的猪只不需要依赖植物性来源的油作进一步的代谢，但采用经过纯化过滤现成的苏格兰三文鱼油。许多农民都了解鱼粉的好处，其中之一为鱼粉内含多元不饱和脂肪酸- 现在也可以从OPTOMEGA中取得。

动物体内无法合成足够的多元不饱和脂肪酸，因此必须经由饲料中摄取。油的来源是关键。

应用

在母猪怀孕至少第60天至配种后1个月的饲料中添加 20 公斤 OPTOMEGA / 吨 或者是 50 克 OPTOMEGA / 头 / 天

在公猪饲料中添加20公斤OPTOMEGA/吨或者是 80克OPTOMEGA /头/天

<60公斤小猪饲料添加20公斤OPTOMEGA/吨

>60公斤大猪饲料添加10公斤OPTOMEGA/吨

OPTOMEGA!



Zigbir®,完整的性能增强剂

环球趋势

现今，在鸡只饲料或饮水中添加天然生长强化剂是很普遍的，这不但可以防止肠道感染和增强鸡只的生长性能，同时也可以减低药物成本。天然生长强化剂被视为可行的抗生素替代品，也可促进成长。

近年来，抗生素的使用以及所造成食物里的残留和对于动物和人的一些病原的抗药性（例如沙门氏菌、弯曲杆菌、大肠杆菌等等），造成了很多的揣测和疑问。抗生素在1940/50年代被誉为动物生产领域中伟大的发现，可是到了1990年代，欧洲却开始面临压力，必须废除抗生素生长促进剂的使用。在欧洲，添加抗生素生长促进剂于饲料已经在2006年全面禁止；在美国一所重要的连锁餐饮店也同样的遭到相同的命运。很不幸的是在畜牧业，特别是家禽养殖业里，业者往往不适当和过度地使用抗生素生长促进剂，造成动物里的病菌开始产生抗药性。

禁止使用抗生素生长促进剂为当地的肉鸡生产带来负面的效果。不被消化的饲料是其中一种细菌发酵的酶作用物。使用较难消化的饲料成分不但造成不良的饲养成绩，也会造成细菌大量地繁殖以致导致疾病或肠道问题。因此，天然生长强化剂是成为代替抗生素生长促进剂的不二选择。

天然性能强化剂之益处

- 肠道菌群平衡
- 减少为病原菌提供养分
- 改善生长性能和饲料利用率
- 加强食品安全
- 减少多方面的紧迫从而改善动物福利

理想的生长性能强化剂

- 可以长期使用，有效及经济
- 不应从肠道吸收至动物体内以防止残留
- 不应与药物产生交互作用或抗药性
- 必须可以被生物分解和对动物及工作人员无害



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□ 更有效地运用营养成分

□ 可以对抗真菌毒素所带来的负面影响

□ 可以对抗化学毒素所带来的负面影响

穿心莲内酯 埋藏于Zigbir®里神奇的植物化学素

改善胆汁流量

改善胆汁量可帮助动物更有效地使用脂肪，进而帮助体重增长、换肉率，以及使用脂溶性维生素和色素（叶黄素）的使用。

更佳的利胆作用

相对于水飞蓟素，测量胆汁流量、胆盐，胆酸及脱氧胆酸，穿心莲内酯呈现较好的利胆作用（Shukla等1992, *Planta medica* 58, 146 – 149）

较好的肝代谢

穿心莲内酯的使用可显著地减少睡眠时间（由戊巴比妥钠促使），表示增强肝的代谢过程。

处理组	剂量 (毫克/公斤)	胆汁流量 (平均值 ± 标准误差)
对照组	-	21.83 ± 1.27
穿心莲内酯 处理组	80	35.49 ± 1.51

胆汁流量以毫克/5分钟/100克体重计算

(文献：G. S. Tripathi & Y. B. Tripathi - *Phytotherapy Research*, Vol. 5, 176-178 (1991))

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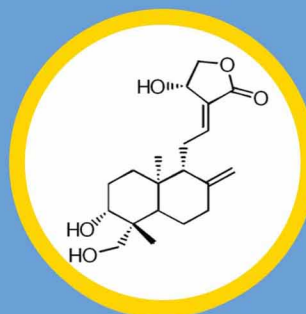
(文献：G.S.Tripathi & Y.B.Tripathi - *Phytotherapy Research*, Vol. 5, 176-178 (1991))

Zigbir®的主要成分

Andrographis paniculata



活性成分：穿心莲内酯



Zigbir®

可被生物分解
对家禽和农场工作者安全
不会导致耐药性

可以均匀的与饲料混合
热稳定
有效和经济型的生长性能强化剂

加强肠道的代谢：经由小肠三段（十二指肠，空肠和回肠）里的乳糖酶，麦芽糖酶和蔗糖酶活化小肠刷状缘膜结合的水解作用。

口服穿心莲可通过活化肠道里的双糖加速肠道的消化和碳水化合物的吸收。（文献：Choudhary BR, Poddar MK; Methods Find Exp Clin Pharmacol, 1985 Dec; 7 (12): 617-21）。

强化叶黄素：NEPA指数高的鸡蛋都可以卖得比较高的价钱（全国鸡蛋与家禽协会对于色素的标准）。大部分消费者还是会诠释鸡只黄色的腿胫和鸡皮为健康的动物（来源：Scott等，1982）。

改善肝的排毒：显著地提高巯基（-SH）溶于酸（acid soluble sulphhydryl, -SH）、细胞色素（Cytochrome）P450、细胞色素P450还原酶（Cytochrome P450 reductase）、细胞色素b5还原酶（Cytochrome b5 reductase）、谷胱甘肽硫转移酶（Glutathione S-Transferase）、DT-心肌黄酶（DT-diaphorase）和超氧化物歧化酶（Superoxidase dismutase）的含量显示改善肝的排毒。

使用量

- 优化商业肉鸡的体重、换肉率和存活率；蛋鸡和种鸡可以划一性成熟期，提高产蛋率、改善换肉率、存活率以及蛋壳厚度。
- 优化肝脏功能，包括排毒。

剂量：每公吨料添加250克

注意：请确保混合均匀

高风险时期：根据饲料的品质和周遭环境的湿度，根据营养师的建议调整，把Zigbir添加至每公吨饲料添加400克。

建议使用量

肉鸡和蛋鸡：第一天开始直到上市



包装：25公斤，1公升瓶装，5公升瓶装

展览会

2013年吉隆坡亚洲家畜博览会和论坛

过去的几个月在其他国家的参展后，我们参加了今年9月24日至26日在马来西亚吉隆坡的2013亚洲畜牧展。这展览汇集成上千的业者，加工业者、兽医，育种，养殖户，饲料厂和来自全国各地的管理人员，分享他们的专业和新的经验。

今年，我们邀请了丹麦、法国、德国、印度和泰国的厂商参展包括Jorenku（丹麦）、NEOVIA（法国）、BioAktiv（德国）、Zeus Biotech（印度）和Novus International（泰国）。厂商的技术和销售人员全力地支持和协助与客户分享他们的知识和有关产品的应用。

在展览会上，我们与不同国家和地区的客户交流和讨论当地的畜产生产性能。在为期三天的展览，我们接见从中国大陆、台湾、巴基斯坦、伊朗、孟加拉国、印度、印尼、越南、泰国等国家的家畜业者。



讲座会

展会期间，举办单位同时也举办了和动物生产、健康和管理相关的研讨会。我们也邀请和赞助国外和本地的演讲者在研讨会上分享一些有用的讯息。

- 在家禽蛋白质营养中节省成本，Kitima Jindamongkon（泰国）
- 2012年马来西亚PigLIVE使用者的种猪性能，Paiboon Sungnak兽医（泰国）

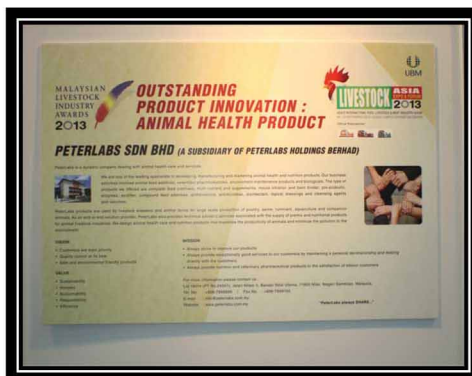


- 在炎热潮湿的热带条件下替代肉鸡饲养中的抗生素，Zulkifli Idrus教授（马来西亚）



奖品

今年，我们被提名并荣获马来西亚禽畜业奖2013 - “优秀产品创新：动物保健品”奖；并在展览结束前，我们还赢得了“最实质展位”奖。



在今年年底，我们将去缅甸仰光参加另一个畜牧展，于2013年12月2-4日的Agrilivestock。这是在缅甸的第一个以国际产业为重点的盛事，将响应当地畜牧业、谷物、饲料生产、水产养殖和农业部门的成长。

