

# OB-100

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Reduce cost of production,  
greater profit

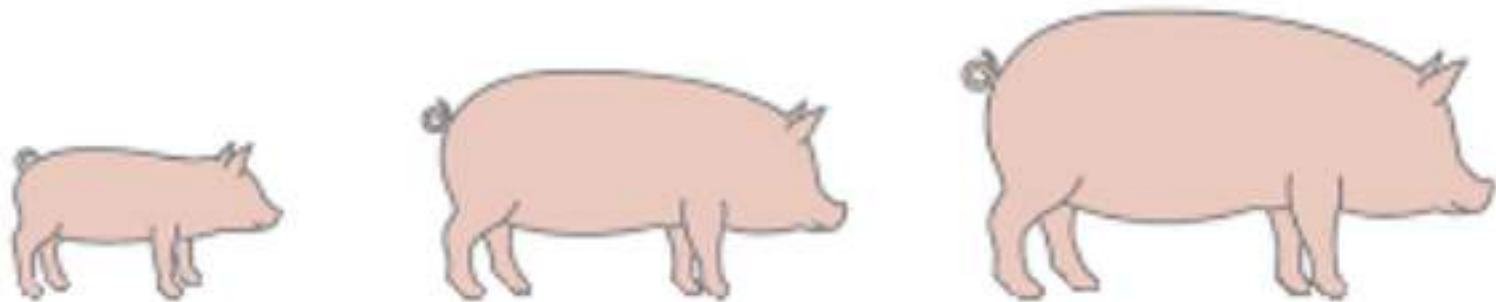




Win Men Biotech SDN. BHD.  
雲門生物科技股份有限公司

# Growth (生长)

- The growth rate of the livestock is one of the financial implications farmers take into consideration. (畜牧业的经济效益主要是通过生长速度和饲料利用率来体现的。)
- Nutrients are the building blocks for growth. Therefore, eating an adequate amount of nutrients helps to promote growth. (营养是促进动物生长的主要基础。 因此，摄取足够的营养物质能有助于促进动物的生长。)
- The nutrient source in animal diets can be divided into animal-based nutrients and plant-based nutrients. (动物饲料中的营养物质的来源可分为动物性营养和植物性营养。)



# Animal-based nutrients vs Plant-based nutrients

## (动物性营养vs植物性营养)

| Animal-based nutrients  | Plant-based nutrients  |
|---|--|
| Contain all of the essential amino acids.   | Lack one or more of the essential amino acids; or present in very small amount.                        |
| Higher in certain nutrients for growth, such as vitamin B12, vitamin D, the omega-3 fatty acid DHA, heme-iron and zinc. | Lesser in certain nutrients for growth.  |
| Nutrients can be digested by endogenous enzymes.  | Certain nutrients are unable to be digested by endogenous enzymes, such as non-starch polysaccharides. |
| Absent of mycotoxins.   | Present of mycotoxins.   |
| Present of animal disease.  | Absent of animal disease.  |
| <b>Very expensive.</b>  | <b>Much cheaper than animal-based protein.</b>   |

# Commodities price (商品价格)

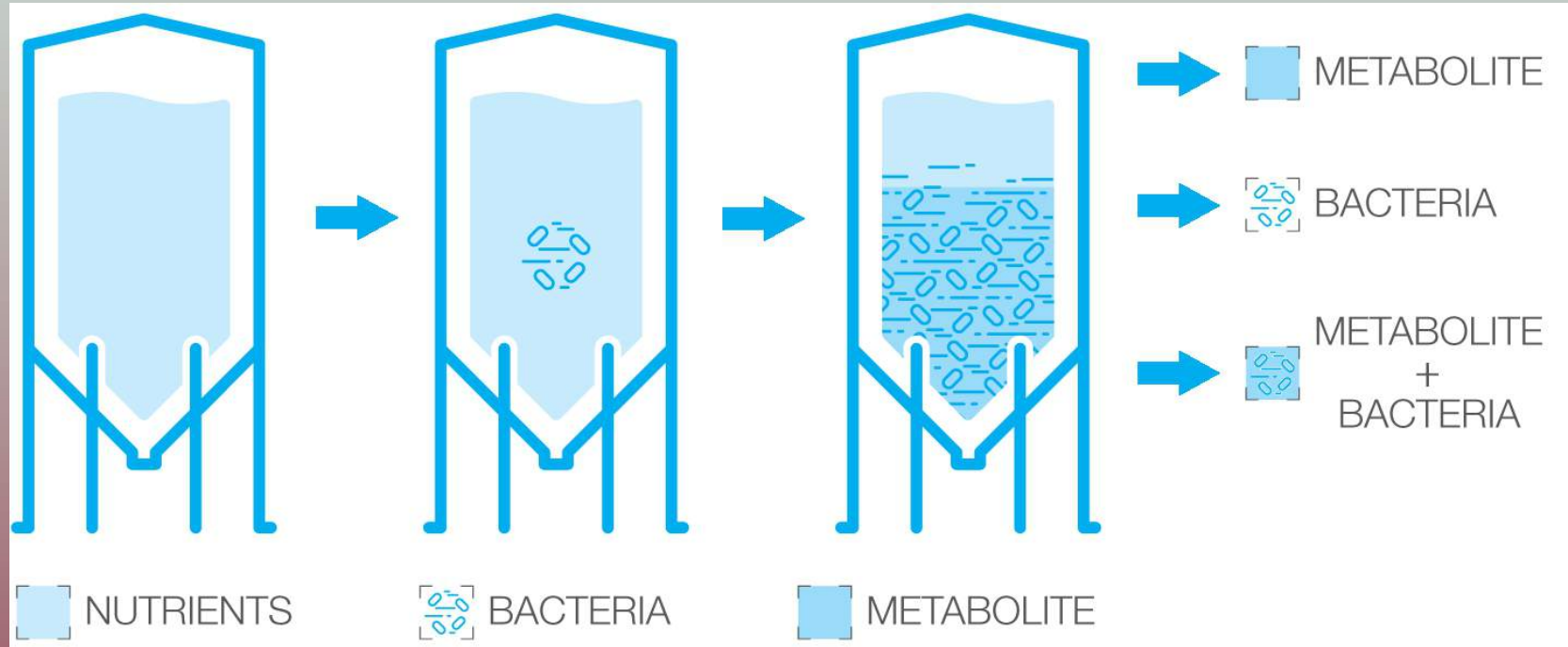
- Commodities price is the key factor to affect industry profitability. (商品价格是影响行业盈利能力的关键因素。)
- Corn and soybean meals are included in more than 80% of diets for poultry and swine. (玉米和豆粕是家禽和猪饲料的主要来源 (超过80%) 。)
- Most of the corn and soybean meals are imported from other countries, only less than 10% of feed ingredients can be sourced locally. (大部分的玉米和豆粕都是从其他国家进口的，只有不到10%的饲料原料可以在国内采购。)
- Although plant-based meals are cheaper than animal-based meals, the price for corn and soybean meals keeps rising year by year. (但是，玉米和豆粕的价格逐年上涨。)
- An alternative feed ingredient with lower cost can be used to replace the uses of corn and soybean meal in poultry and swine feed. (因此，急需一种成本较低的饲料原料来替代或降低玉米和豆粕在家禽和猪饲料中的使用。)



# Fermentation (发酵)

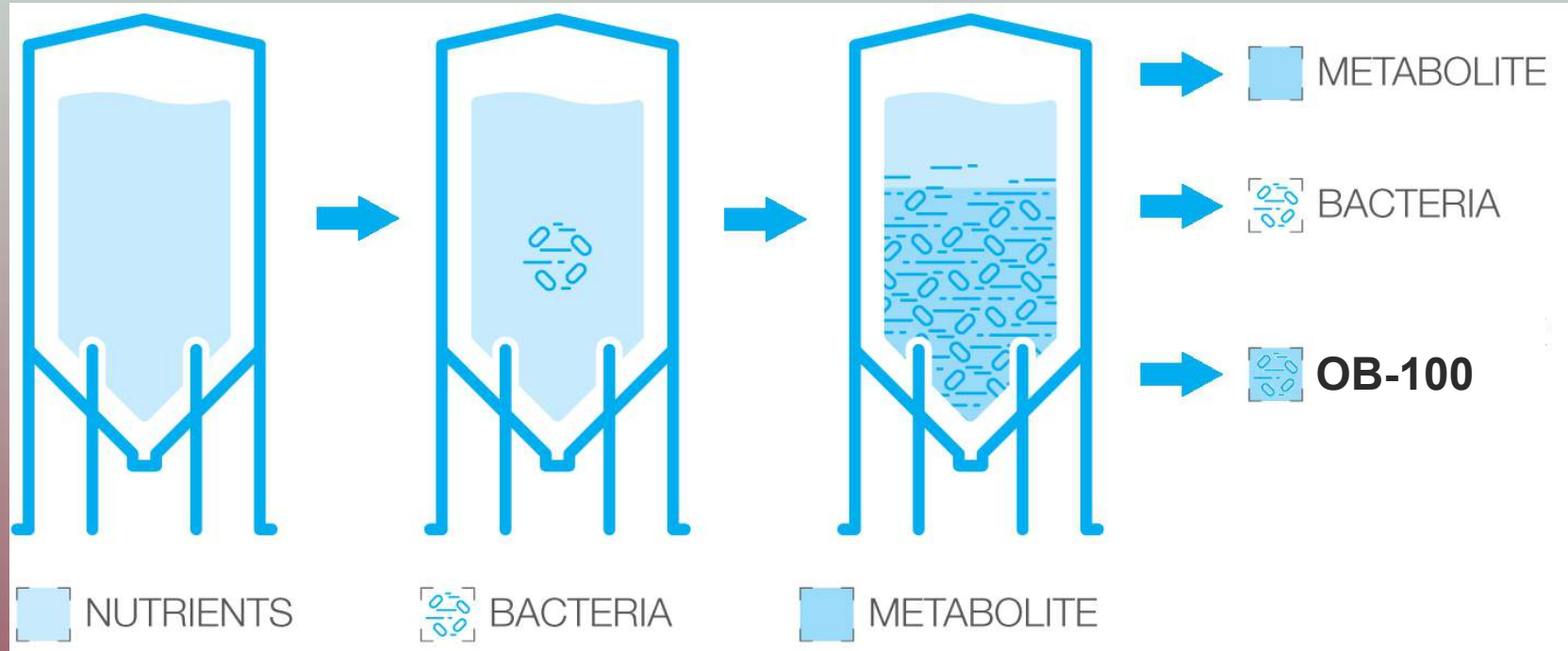
- Fermentation is defined as a chemical change brought about using microorganisms, e.g., in the biotechnology industry for the production of pharmaceuticals, feed additives, and animal feedstuffs. (发酵是指生物体(微生物)对于有机物的某种分解过程。如今在药品, 食品, 饲料, 生物和化学工业中均有广泛应用。)
- Although the word 'fermentation' indicates 'anaerobic metabolism,' it is also used in a broader sense to indicate all anaerobic and aerobic microbiological and biochemical modifications that result in desirable quality modifications of feed ingredients. (发酵是指人们借助微生物在有氧或厌氧的条件下产生微生物菌体本身, 或者直接代谢产物或次级代谢产物的过程。)
- The range of products that are produced by fermentation includes organic acids, amino acids, polysaccharides, vitamins, enzymes and more. Fermentation also being used to multiply microorganisms. (发酵产生的产品范围包括有机酸, 氨基酸, 多糖, 维生素, 酶等。发酵还用于增殖微生物。)

# Fermentation (发酵)





# What is OB-100? (什么是OB-100?)





# OB-100

- **OB-100** is formulated with Win Men's probiotics cocktail (bacteria) and Bacillus ferment (metabolite) with a special fragrance of yeast. (**OB-100**是由云门的益生菌和芽孢杆菌发酵代谢产物所制成，并带有酵母的特殊香味。)
- The special yeast fragrance of **OB-100** can enhance the taste and smell of feed to improve palatability and encourage greater feed intake, thus obtain more nutrients to promote growth. (**OB-100**的特殊酵母香味可改善饲料的适口性和提高采食量，以促进动物的生长。)



# Mechanism of OB-100 (OB-100的作用机制)

## Probiotics

- Introduce a large number of probiotics that will promote the balance of intestinal microbiota. (引入大量的益生菌来促进肠道菌群的平衡。)
- Produce large amounts of varieties of digestive enzymes. (产生大量的消化酶。)
- Efficiently decompose the toxins, toxic amines, methane and other toxic substances produced in the animal's intestine to enhance immunity and prevent diseases. (有效分解动物肠道内所产生的肠毒素，毒性胺，甲烷等其他有毒物质，并增强机体免疫功能和预防疾病。)

## Metabolites

- The special fragrance of yeast of the OB-100 can cover up the unpleasant odour of the feed ingredients, enhance the taste and smell of feed to improve palatability and encourage greater feed intake. (OB-100的酵母的特殊香气可以掩盖饲料中难闻的气味，改善饲料的适口性，并提高动物的采食量。)
- Rich in various amino acids and trace elements, as well as various vitamins, mannan oligosaccharides, functional peptides and more. (富含多种氨基酸和微量元素，以及多种维生素，甘露寡糖，功能性肽等。)

# The advantages of OB-100 (OB-100的优势)

Improves feed intake and feed efficiency.  
(提高采食量和改善饲料效率。)

Reduces faecal stench and eliminates fly larvae.  
(减少粪便臭味并消除蝇蛆。)



Improves immunity.  
(提高免疫力。)

Improves the flavor and color of meat and eggs.  
(改善肉品和蛋品的风味和色泽)

Improves daily gain and slaughter rate.  
(提高日增重和改善屠宰率。)

Improves reproduction rate, lean meat rate, milk production, egg production.  
(提高动物繁殖率, 瘦肉率, 产奶量, 产蛋率。)

# The effect of OB-100 on the growth performance of broilers

|                              | Control | OB-100       |
|------------------------------|---------|--------------|
| Average Daily Feed Intake, g | 70.53   | <b>81.88</b> |
| Average Daily Gain, g        | 41.24   | <b>51.82</b> |
| Feed Conversion Rate (FCR)   | 1.71    | <b>1.58</b>  |

Diets supplied with **OB-100** significantly increased the ADFI and ADG and improved the FCR of broiler chickens.

在日粮中添加**OB-100**可提高肉鸡的平均日采食量和日增重及改善其饲料转化率。

# The effect of OB-100 on the carcass quality of broilers

| Carcass quality        | Control | OB-100       |
|------------------------|---------|--------------|
| Carcass Weight Loss, % | 4.66    | <b>4.33</b>  |
| Dressing Percentage, % | 72.34   | <b>70.61</b> |
| Breast Muscles, %      | 20.54   | <b>22.65</b> |
| Leg Muscles, %         | 18.12   | <b>19.84</b> |
| Abdominal Fat, %       | 1.15    | <b>1.02</b>  |

Diets supplied with **OB-100** significantly improved the carcass quality of broiler chickens.

在日粮中添加**OB-100**可改善肉鸡的胴体品质。

# The effect of OB-100 on villus height and crypt depth in broiler

|                   |          | Control | OB-100         |
|-------------------|----------|---------|----------------|
| Villi height (μm) | Duodenum | 1473.14 | <b>1482.87</b> |
|                   | Jejunum  | 735.56  | <b>739.43</b>  |
|                   | Iluem    | 614.34  | <b>629.30</b>  |
| Crypt depth (μm)  | Duodenum | 227.67  | <b>224.68</b>  |
|                   | Jejunum  | 213.26  | <b>208.13</b>  |
|                   | Iluem    | 197.92  | <b>194.27</b>  |

Diets supplied with **OB-100** significantly increased the villi height and decreased crypt depth of broiler chickens.

在日粮中添加**OB-100**可提高肉鸡绒毛高度和减少隐窝深度。

# The effect of OB-100 on ileal lactic acid bacteria (LAB) and Enterobacteriaceae (ENT) count in broiler

|                                    | Control | OB-100 |
|------------------------------------|---------|--------|
| LAB count, log <sub>10</sub> CFU/g | 5.16    | 5.54   |
| ENT count, log <sub>10</sub> CFU/g | 4.38    | 4.26   |

Diets supplied with **OB-100** significantly increased the LAB count and decreased the ENT count in broiler chickens.

在日粮中添加**OB-100**可提高肉鸡回肠乳酸菌数量和减少肠杆菌数量。



# Conclusion (结论)

- **OB-100** is a safe, green and residue-free product that can be added to animal feed to make animals love to eat more, thereby obtaining more nutrients to promote growth. (**OB-100**是一种安全，绿色和无残留的动物饲料添加剂，可改善饲料的适口性和提高采食量，以促进动物的生长。)
- **OB-100** can (**OB-100**能):
  - improve feed intake and feed efficiency; (提高采食量和饲料效率; )
  - improve immunity; (提高免疫力; )
  - improve daily gain and slaughter rate (提高日增重和改善屠宰率; )
  - improve animal reproduction rate, lean meat rate, milk production and egg production rate; (提高动物繁殖率，瘦肉率，产奶量和产蛋率; )
  - improve the flavour and colour of meat and egg; (改善肉品和蛋品的风味和色泽; )
  - reduce faecal stench and eliminate fly larvae. (减少粪便恶臭，消灭蝇蛆。)

# Recommended Usage (推荐用法)

- Mix 25-50 kg **OB-100** into 1 ton feed. (每公吨饲料添加25-50公斤的**OB-100**。)



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