



**LIBAIHE**

**API  
INGREDIENTS**

**NUTRITIONAL  
SUPPLEMENTS**

**COSMETIC  
MOISTURIZERS**



**Jinan Pengbo Biotechnology Co., Ltd.**

JINAN CHINA Compliance with ISO9001, ISO22000, FSSC22000 and Kosher with GMP workshop



## Brief Introduction

Pengbo, founded in Jinan, capital of Shandong province since 2013, is dedicated to the industry of additives for feed, food, pharma&human's nutrition and personal care & cosmetics. With main products as choline chloride, choline bitartrate, choline dihydrogen citrate, DMAE bitartrate, betaine, allantoin and urea, pyruvic acid and salts, and multiplex catalysts, by improving credibility, our company enjoys sound business growth in the past time. Pengbo's value has been fully recognized by more and more customers who purchase our products and enjoy our considerate service.

Till now, our factory has successfully acquired ISO 9001, ISO22000, FSSC 22000, and Kosher Certificates, and our workshop conforms to GMP standard, all the above laid strong foundation for Pengbo to win customer's precious trust.

With frequently communications with customers and technical support from Chinese Academy of Sciences and Shandong University, our R&D department has achieved great success in developing at least 10 new products annually. In fact, the new product is just the motive that drives Pengbo and customers growing rapidly. New products support Pengbo and customers leading the trend in the international market.

"We make it a better life", all Pengbo's staff keep this principle in mind, with a great passion to establish a long-standing and multi-beneficial cooperation relationship with the customers all over the world.

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## Products List

### Feed, Food, Pharma & Human Nutrition

Product	Standard	CAS
Choline Chloride	Industrial, Feed, Food &Pharma	67-48-1
Choline Bitartrate (DL & L (+))	Food &Pharma	87-67-2
Choline Dihydrogen Citrate	NF12	77-91-8
DMAE Bitartrate(DL & L (+))	Food &Pharma	29870-28-8
Betaine Anhydrous	Feed, Food &Pharma	107-43-7
Betaine Monohydrate	Feed, Food &Pharma	17146-86-0
Betaine Hydrochloride	Feed, Food &Pharma	590-46-5

### Personal Care & Cosmetics

Product	Standard	CAS
NMF-50 (Betaine Monohydrate)	Cosmetic	17146-86-0
Betaine Anhydrous	Cosmetic	107-43-7
Crystallized Urea	Cosmetic	57-13-6
Hydroxyethyl Urea	Cosmetic	2078-71-9
Allantoin	Cosmetic	97-59-6

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# Choline Chloride

## Specifications

	Choline Chloride Crystal	Choline Chloride Liquid
Appearance	White crystalline powder	Colorless or light yellow sticky liquid
Assay	≥98%	70-75%
Particle Size	20-100 Mesh	None
Grade	Feed grade, Food Grade, Pharma Grade	Feed grade, Industrial Grade
Package	20Kg/PE Bag、Fiber Drum、Carton	230Kg/Plastic drum、IBC Drum、FLEXIBAG

Please send mail for more information.

### Applications:

As a hydrochloride form of choline, choline chloride is an efficient nutritional supplement and fat removal agent, it can promote fat metabolism, and prevent the accumulation of fat in the liver. As a Vitamin B product, it is widely used in medicine, health food and food. The pure one is colorless or white crystal granular, and it is much easy to absorb moisture. As a food additive, choline chloride has gained a great popularity in the customers by its high content of choline (85%) and a much more competitive price relatively.

### Storage:

Should be stored tightly sealed in a cool and dry place, with shelf life as two years.

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# Choline Bitartrate (DL & L (+))

## Specifications

	Choline Bitartrate (DL & L (+))	Choline Bitartrate Coated (DL & L (+))
Assay	≥98%	≥97%
Moisture	≤0.5%	≤0.5%
Heavy Metals	≤10PPM	≤10PPM
Particle Size	20-100 Mesh	20-80 Mesh
Grade	Food Grade, Pharma Grade	Food Grade, Pharma Grade
Package	25Kg/ Fiber drum, Carton	25Kg/ Fiber drum, Carton

Please send mail for more information.

### Applications:

Choline Bitartrate is a nutritional supplement and fat burner agent, it can promote fat metabolism, and prevent the accumulation of fat in the liver, which has functions of transformation improvement for phospholipid, operation speeding up for fat and cholagogic effect. It can be used in the treatments for hepatitis, hypohepatia, early hepatocirrhosis, and pernicious anemia.

### Storage:

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# Choline Dihydrogen Citrate

## Specifications

Item	Standard
Assay	≥98%
Moisture	≤0.25%
Heavy Metals	≤20PPM
Particle Size	20-100 Mesh
Grade	Food Grade, Pharma Grade
Package	25Kg/ Fiber drum, Carton

Please send mail for more information.

### Applications:

As a hydrogen citrate form of choline, choline dihydrogen citrate is an efficient nutritional supplement and fat removal agent and does not have any side effect to the human body, it can promote fat metabolism, and prevent the accumulation of fat in the liver. As a Vitamin B product, it is widely used in medicine, health food and food. With tartrate easy absorption and low irritant, as an alternative product for choline chloride, choline bitartrate and other choline products, choline dihydrogen citrate is used for children and pregnant women. The pure one is white powder or crystal, which can reach to FCCV or USP 36 standard.

### Storage:

Should be stored tightly sealed in a cool and dry place, with shelf life as two years.

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# DMAE Bitartrate (DL & L (+))

## Specifications

Item	Standard
Assay	≥98%
Moisture	≤0.5%
Heavy Metals	≤10PPM
Particle Size	20-100 Mesh
Grade	Food Grade, Pharma Grade
Package	25Kg/ Fiber drum, Carton

Please send mail for more information.

### **Applications:**

It is widely used in food, health food, medicine, cosmetics and nutritional additives.

### **Storage:**

Should be stored tightly sealed in a cool and dry place, with shelf life as two years.

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# Betaine Anhydrous

## Specifications

Item	Standard
Assay	95-98%
Moisture	≤2%
Heavy Metals	≤20PPM
Particle Size	20-100 Mesh
Grade	Feed Grade, Food Grade, Pharma Grade
Package	25Kg/ PE Bag, Fiber drum, Carton

Please send mail for more information.

### Applications:

- 1.as a methyl supplier in feed additive, it can save methionine partially;
- 2.phagostimulant in feed of aquatic livestock;
- 3.regulate osmotic pressure, moderate stress, promote fat metabolism and protein synthesis, increase meat factor and enhance curative effect of anticoccidial drugs;
- 4.it is raw materials of medicines for antineoplastic, antihypertension and anti-peptic ulcer, also treatment of gastrointestinal dysfunction and liver disease.

### Storage:

Should be stored tightly sealed in a cool and dry place, with shelf life as two years.

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# Betaine Monohydrate

## Specifications

Item	Standard
Assay	≥98%
Moisture	≤15%
Heavy Metals	≤20PPM
Particle Size	20-100 Mesh
Grade	Feed Grade, Food Grade, Pharma Grade
Package	25Kg/ PE Bag, Fiber drum, Carton

Please send mail for more information.

### Applications:

- 1.as a methyl supplier in feed additive, it can save methionine partially;
- 2.phagostimulant in feed of aquatic livestock;
- 3.regulate osmotic pressure, moderate stress, promote fat metabolism and protein synthesis, increase meat factor and enhance curative effect of anticoccidial drugs;
- 4.it is raw materials of medicines for antineoplastic, antihypertension and anti-peptic ulcer, also treatment of gastrointestinal dysfunction and liver disease.

### Storage:

Should be stored tightly sealed in a cool and dry place, with shelf life as two years.

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# Betaine Hydrochloride

## Specifications

Item	Standard
Assay	95-98%
Moisture	≤0.5%
Heavy Metals	≤20PPM
Particle Size	20-100 Mesh
Grade	Feed Grade, Food Grade, Pharma Grade
Package	25Kg/ PE Bag, Fiber drum, Carton

Please send mail for more information.

### Applications:

1. as an efficient methyl supplier, it can replace the methionine and choline chloride partially, and reduce the feed cost accordingly;
2. take part in fat metabolism, and promote the protein synthesis;
3. nature of phagostimulating activity;
4. buffering material for osmotic pressure catastrophe;
5. improve therapeutic efficacy together with anticoccidial drugs;
6. important raw material for veterinary drug cyclosporintinol;
7. protect vitamin;
8. raw material for medicine of liver prevention;
9. treatment of achlorhydria, atherosclerosis and hepatic disease;
10. restrain the deposition of fat in liver.

### Storage:

Should be stored tightly sealed in a cool and dry place, with shelf life as two years.

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# NMF-50 (Betaine Monohydrate)

## Specifications

Item	Standard
Assay	≥99%
Moisture	≤15%
PH	5.0-7.0
Heavy Metals	≤10PPM
Conductivity	According to requirement
Particle Size	20-80 Mesh
Grade	Cosmetic Grade
Package	25Kg/ Fiber drum, Carton

Please send mail for more information.

### Applications:

NMF-50 Exists in organism naturally, which is a component of natural moisturizing factor; It has a superior moisture retention, with a fresh and cool hand feeling; it may permeate the skin efficiently, and bring moist to it; it may also repair the damaged hair from chemical treatment ( such as cold wave, dye and hair spray), with suggested dosage as 1%–10%.

### Storage:

Should be stored tightly sealed in a cool and dry place, with shelf life as two years.

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# Betaine Anhydrous

## Specifications

Item	Standard
Assay	≥99%
Moisture	≤2.0%
Heavy Metals	≤10PPM
Particle Size	20-100 Mesh
Grade	Cosmetic Grade
Package	25Kg/ Fiber drum, Carton

Please send mail for more information.

### **Applications:**

Can be used in medicine, dental materials, cosmetics, health food and diet food etc.

### **Storage:**

Should be stored tightly sealed in a cool and dry place, with shelf life as two years.

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# Crystallized Urea

## Specifications

Item	Standard
Assay	≥99%
Moisture	≤1%
Chloride	≤0.007%
Residue on Ignition	≤0.1%
Particle Size	12-40 Mesh
Grade	Cosmetic Grade
Package	25Kg/ Fiber drum, Carton

Please send mail for more information.

### Applications:

Urea is a superior moisturizing ingredient, which exists in the cuticle of skin and is a main component of natural moisturizing factor. Urea has functions of moisturizing and softening cuticle of skin, which is to prevent cutin from blocking the pores, and help to improve the acne situation of the skin. Urea can be used as a moisturizing ingredient in facial mask, skincare lotion, cream, hand cream with suggested dosage as: 3%–5%.

### Storage:

Should be stored tightly sealed in a cool and dry place, with shelf life as two years.

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# Hydroxyethyl Urea

## Specifications

Item	Standard
Assay	≥98%
Moisture	≤1%
Ph Value	6-8
Residue on Ignition	≤0.1%
Particle Size	≥90% through 20 Mesh
Grade	Cosmetic Grade
Package	25Kg/ Fiber drum, Carton

Please send mail for more information.

### Applications:

Not only offers highly moisturizing effect to skin care products, hydroxyethyl urea also has no sticky feelings, and the products can be of excellent skin-feelings and moisturizing effects with it even when reducing the consumption of silicone. Scarfskin moisture content is usually taken as a main basis for judgment of healthy and intact of skin. Maintaining skin surface supply and healthy appearance is important to keeping cuticle moisture content, which has a great influence to skin elasticity and visual effect. Hydroxyethyl urea moisturizer can be penetrated into cuticle, to increase skin moisture content, ease drying, fill microgroove, enhance skin elasticity and give pleasant feelings to the consumers. Hydroxyethyl urea moisturizer may keep the moisture content naturally, and improve the formula's hand feeling and cold-resistant stability of emulsified system. Because of non-ionic nature and stability, hydroxyethyl urea can be used along with a majority of raw material and has a wide range of PH applications.

Because of excellent moisturizing effect, and slight side effects to skin and eyes, hydroxyethyl urea is usually used as moisturizer in personal care products, which include:

- 1.Skin care products: cream, lotion, firming lotion and facial mask, etc.
- 2.Bath & shower products;
- 3.Hair care products: shampoo, hair conditioner and approved products, etc.
- 4.Cleansers and soap;
- 5.Baby products: cleaning products, lotion, etc.
- 6.Sunscreen products: sunscreen and care products;
- 7.Makeup products: foundation, and eye care products.

### Storage:

Should be stored tightly sealed in a cool and dry place, with shelf life as two years.

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# Allantoin

## Specifications

Item	Standard
Assay	≥98%
Moisture	≤0.5%
Heavy Metals	≤20ppm
Particle Size	≤80 Mesh
Grade	Cosmetic grade, Pharma Grade
Package	25Kg/ Fiber drum, Carton

Please send mail for more information.

### Applications:

As a amphoteric compound, allantoin may combine many substance to form double salt, and has functions of keeping out of the sun, sterilization, anticorrosion, pain-killing and antioxidation etc. Allantoin may help to keep moist and soft of the skin, is a specific additive in cosmetics for hair-dressing and beauty etc., is widely used in freckle cream, acne lotion, shampoo, soap, tooth-paste, shave (the face), conditioner, astringent, and anti-sweat & deodorization agent. The cosmetics with allantoin added may protect the skin tissue, keep the skin to be hydrophilic, water absorptive, and prevent the water to be emitted etc. The hair cream, shampoo with allantoin added may protect the hair, help the hair from wake and splitting; the lipstick, cream with allantoin added may help the lip and skin to be soft and supple, and give them a nice glow. Allantoin may help to promote the tissue growth, cell metabolism, and soften cuticle protein.

### Storage:

Should be stored tightly sealed in a cool and dry place, with shelf life as two years.

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