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浩天  
howtian

**INOSITOL**

**肌醇**



# 01/

## Who Are We?

### 关于浩天

HOWTIAN® is a producer and supplier of premium quality, natural, plant-based ingredients, serving customers in the food, beverage, animal nutrition, pharmaceutical, and nutritional sectors in more than 80 countries and regions around the world.

浩天药业是一家成立于1999年的民营企业，致力成为全球领先的天然甜味剂、营养与功能配料的生产商与供应商，为全球超过80个国家和地区的食、饮、动物营养、药品和保健品等行业的客户提供产品及解决方案。

## Our Products

Inositol (myo-inositol)  
D-Glucuronolactone  
D-Chiro-Inositol  
Stevia  
Baicalin  
PQQ

## 我们的产品

肌醇  
葡醛内酯  
手性肌醇  
甜菊糖  
黄芩  
吡咯并喹啉酮二钠盐

# 02/

## HOWTIAN® the No. 1 浩天-全球领先的肌醇供应商

The world's leading inositol supplier  
全球领先的肌醇供应商

GMP-certified factory for Inositol in China  
获得GMP认证并持续生产肌醇的中国工厂

EU compliant active pharma ingredient with  
full documentation  
拥有出口欧盟原料药证明文件



# 03/

## What is Inositol? 什么是肌醇?

Inositol, also known as myo-inositol, or cyclohexanol, is a water-soluble vitamin B complex that can be naturally found in foods like cantaloupe, most citrus fruits, corn, rice and beans. When added to most food and beverage products, it has a clean taste and is relatively heat-stable. It is commonly added into infant formulas, energy drinks, animal feed, cosmetics, and supplements, for its various health and wellness benefits.

肌醇又名环己六醇，是一种水溶性维生素，属维生素B族中的一种。肌醇是人、动物与微生物生长的必需物质，被广泛应用于婴幼儿乳制品、功能性饮料、动物饲料和化妆品。除此之外，肌醇在多种维生素、营养性氨基酸产品和富含维生素的健康和保健产品中，也具有广泛的应用。

# 04/

## Inositol Application 肌醇的应用

### Inositol in Infant Formulas 肌醇在婴儿配方奶粉中的应用

Inositol is rich in breast milk, which boosts metabolism and improves sleep and hair growth. The US FDA requires manufacturers to add inositol to stage 1 infant formulas.

Reference dosage: 22mg or 100kcal (this is the average amount in breast milk).

母乳中富含肌醇，肌醇可以促进婴儿新陈代谢，提高其睡眠质量并改善头发生长。美国FDA规定第一阶段婴儿配方奶粉中制造商必须添加肌醇。  
参考添加量：22mg 或 100kcal（这是母乳中的平均含量）。

### Inositol in Cosmetics 肌醇在化妆品中的应用

Inositol has been proven to moisturize the skin and hair, and is used in skin care and hair care products to prevent skin aging, hair loss and hair static electricity.

肌醇具有预防肌肤老化、减少脱发的功效。经证实，肌醇对皮肤和头发具有保湿效果，应用于护肤品和护发产品中，可以有效预防皮肤老化，防止脱发及头发静电产生。肌醇作为一种安全成分已被中国化妆品原料目录收录。

Inositol has good transdermal permeability and can promote the absorption of other ingredients in cosmetics. Excellent moisturizing properties can maintain skin moisture and elasticity, help to balance dry and oily skin sebum content, deep nourishing skin and smooth wrinkles.

肌醇具有良好的经皮渗透性，能够促进化妆品中其他成分的吸收。其优越的保湿性能可以保持肌肤水分和弹性，有助于调节干性和油性皮肤的皮脂含量，深层滋养皮肤，抚平皱纹。

## Inositol in Dietary Supplements

### 肌醇在营养强化剂中的应用

Inositol is an active vitamin. It has the effect of supporting the immune system, protecting the liver, reducing cholesterol and so on.

肌醇作为一种活性维生素，参与新陈代谢，具有提高免疫力、护肝、降胆固醇等作用。

## Recommended Dietary Allowance (RDA)

### 推荐膳食营养素供给量 (RDA)

While there is no official Recommended Daily Allowance (RDA) for inositol, most sources suggest consuming it between 100-1000mg per day. For the treatment of certain health conditions, a daily intake of 1-12g may be needed. However, dosing above 12g per day may cause mild side effects in some people.

通常建议每日摄入量在100-1000mg之间。对于某些特殊情况的治疗，可能需要每日摄入10-12g，超过12g的用量可能导致恶心、疼痛、疲倦和头晕等副作用。

### 食品安全国家标准 食品营养强化剂使用标准

Usage 用途	Daily dose 日用量
Infant formulas 调制乳粉（仅限儿童用乳粉）	210-250mg/kg（毫克/千克）
Fruit & vegetable juice (meat) beverages 果蔬汁（肉）饮料	60-120mg/kg（毫克/千克）
Flavor drinks 风味饮料	60-120mg/kg（毫克/千克）
Special dietary food 特殊膳食食品	According to need 按需添加使用量



## Inositol in Pharmaceuticals

### 肌醇在药品中的应用

NMPN: H20045843

Inositol helps pregnancy without adverse effects.

肌醇有助于妊娠，且无副作用。

Scientists from the University of Messina in Italy found that Inositol could reduce the risks of gestational diabetes mellitus (GDM) in pregnant women.

意大利梅西纳大学的科学家发现，肌醇可以降低孕妇患妊娠期糖尿病 (GDM) 的风险。

Inositol can lower cholesterol and help the recovery of fatty liver.

肌醇能降低胆固醇，有助于脂肪肝的恢复。

## Inositol in Feed 肌醇在饲料中的作用

### Benefits of Inositol in Ruminant 肌醇在反刍动物饲料中的作用

- Promote appetite 促进食欲
- Regulate metabolism 调节新陈代谢
- Improve nutrient digestion & absorption 促进营养物质的消化和吸收
- Increase milk production 增加产奶量

### Benefits of Inositol in Fur Animal and Pet Feed 肌醇在毛皮动物和宠物饲料中的作用

- Enable animals to grow thicker hair 使动物毛发生长更浓密
- Improve the quality of fur 提高毛皮质量

### Benefits of Inositol in Aquatic Feed 肌醇在水产饲料中的作用

- Improve the digestive function 改善消化功能
- Inhibit the development of fatty liver 预防脂肪肝的发生
- Improve survival rate 提高存活率
- Increase weight and promote growth 增加体重，促进生长
- Strengthen immunity 增强免疫力



# 05/

## HOWTIAN® Inositol Quality Control 浩天肌醇质量控制

HOWTIAN® Inositol complies with the National Standard, FDA, GMP, FSSC22000, ISO9001, ISO22000, ISO14001, HACCP, QS, FDA, Halal, Kosher and so on.

浩天肌醇符合国标、FDA、GMP、FSSC22000、ISO9001、ISO22000、ISO14001、HACCP、食品QS、美国FDA、清真Halal、犹太Kosher等各项认证。



# 06/

## Inositol Standards 产品规格

### National Standards 内销标准

Feed Grade/Food Grade/Pharma Grade  
饲料/食品/医药级

### International Standards 出口标准

USP/FCC/NF12/EP/BP/KP

### Powder 粉末

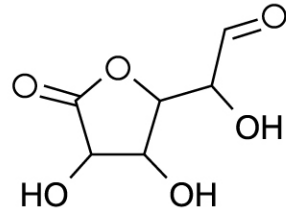
100% pass 30/40/60/80 mesh  
100%通过30/40/60/80目

### Granular 颗粒

DC 95 (5% PVP)  
DC 97 (Pure Inositol)

# 07/

## What is D-Glucuronolactone?



D-Glucuronolactone, (aka. DGL) is a metabolite and carbohydrate, which can be also naturally produced by our bodies, when glucose metabolizes in our liver. It is an important component of our connective tissues.

As a liver detoxifier and immune function modulator, D-Glucuronolactone is a conventional liver protection substance.

- molecular formula  $C_6H_8O_6$
- molecular weight 176.12.
- CAS No. 32499-92-6

# 08/

## What is D-Chiro-Inositol?

D-Chiro-Inositol (DCI) is a natural sugar alcohol and a vital member of the inositol family. Sourced from select foods and naturally produced by the body.

### DCI is an essential compound with unique health benefits:

#### ➤ Diabetic Support

DCI offers a natural way to address insulin resistance-improving insulin sensitivity for individuals with type 2 diabetes.



#### ➤ Polycystic Ovary Syndrome (PCOS) Support

DCI is commonly used to support women dealing with PCOS by regulating their menstrual cycles and even improving fertility.

