

### FOCUS ON MAKING GOOD CAPSULES



GDL CAPSULE

STARTED IN 1970



### GDL CAPSULE

Looking forward to providing valuable products and services to every customer



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### H-Caps<sup>®</sup> (HPMC Capsules)

- 1 No BSE/TSE risks
- 2 Free of preservatives, allergens and starches
- 3 Non GMO
- 4 Avoiding risks of cross-linking reactions of gelatin
- 5 Suitable for water sensitive formulation
- 6 Non Animal-derived
- 7 Halal Certified
- 8 Reliable quality and filling performance
- 9 Can be liquid filled



## H-Caps® DR (HPMC Capsules DR) Delayed Release

- 1 Resistant to gastric acids
- 2 Suitable for protecting probiotics and enzymatic from stomach acidity
- 3 Can be customized with titanium dioxide free colors
- 4 Ideal for moisture sensitive or hygroscopic formulations

## Titanium Dioxide FREE Capsules



Specifically designed to meet the latest regulatory standards in Europe, our capsules provide the same great benefits as traditional capsules, but without the use of TiO<sub>2</sub>. Trust in our commitment to providing safe and compliant products for your supplement needs.



## Prulan Caps<sup>®</sup> (Pullulan Capsules) Organic Certified

### 1 Pure plant source

- 2 No BSE/TSE risks
- 3 Low oxygen permeability
- 4 Free of preservatives, gluten and starch
- 5 Suitable for organic products



### **Gelatin Capsules**

- 1 No BSE/TSE risks
- 2 No preservatives
- 3 Halal certified
- 4 Easy to swallow
- 5 Excellent filling yield rate
- 6 Tighter weight specifications can be provided



### Liquid Filled Capsule Contract Manufacturing

- 1 Lutein complex liquid capsules
- 2 Peruvian Inca fruit oil complex liquid capsules
- 3 Sea buckthorn oil capsule
- 4 Borage oil capsule
- 5 Microalgae DHA oil capsule
- 6 Phosphatidylserine oil capsule
- Thighly concentrated deep-sea fish oil
- 8 Coenzyme Q10+ Flaxseed oil
- 9 Type II collagen + Safflower seed oil
- 10 Rose oil + Evening primrose oil



Size	Opening outer diameter(mm)		Locked length	Filler volume	Packing
	Сар	Body	(mm)	(ml)	(10,000 capsules/Carton)
#00EL	8.55±0.05	8.25±0.05	25.2±0.5	1.20	7
#00			23.3±0.5	0.95	7.5
#0EL	7.72±0.05	7.42±0.05	22.8±0.5	0.78	10
#0	7.72±0.05	7.41±0.05	21.8±0.5	0.67	10
#1	6.93±0.05	6.64±0.05	19.5±0.5	0.5	13
#2	6.35±0.04	6.08±0.04	17.7±0.5	0.37	18
#3	5.83±0.04	5.56±0.04	15.9±0.5	0.28	23
#4	5.38±0.04	5.08±0.04	13.6±0.5	0.20	30
#5	4.88±0.04	4.55±0.04	11.7±0.5	0.13	40

#### Conventional packing

Outer packing for high-strength 5-layer corrugated carton + inner packing for pharmaceutical-grade high-density polyethylene bags.

1970 Founded in Taiwan

1989
Developed the first generation of capsule production line

1992
Established Shanghai GDL
Capsule Factory

2010
Developed the high-speed capsule production line with two machine heads

BRAND
HISTORY

2016
Established Guizhou GDL Capsule Factory

After more than 50 years of development, GDL Capsules has become the world's 4th hollow capsule manufacturer with self-developed high-speed automatic capsule production lines. 1 capsule equipment factory, 3 capsule production bases, equipped with more than 30 double-head high-speed capsule production lines, with an annual production capacity of 20 billion capsules of gelatine and plant hollow capsules, and providing high-quality products and services to more than 1,000 customers around the world.









# Digital Intelligent Process Design

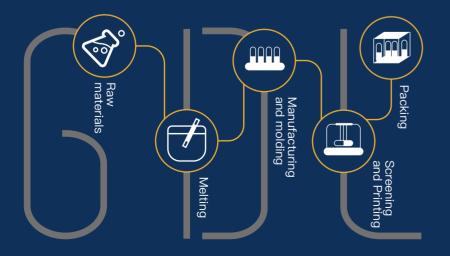
MTS Self-innovation and development of MTS production quality traceability system, after 5 key operations and release, record the whole element data of each packet of capsules, so that each packet of capsules has a unique identity traceability bar code.

HVAC Intelligent Control System – Established automatic data collection, automatic adjustment control and automatic recording system for temperature, humidity and airflow of purified air conditioning system.

Automated material melting system–Automatic material loading, intelligent precision weighing module, automatic vacuum, automatic cleaning function.

Vertical process route design – each production line is equipped with independent air–conditioning system and independent operation space, comprehensive use of pipeline conveying technology to ensure smooth process flow, reduce manual operation and avoid confusion and pollution.

ERP-Enterprise-wide system resource integration management, proprietary development modules, from materials to sales, to provide instant data support.





## Quality Management and Compliance

GDL has established a unified production quality management system based on the current GMP standards, implementing the latest global product quality standards. Unified supplier system, process quality control methods and production processes. Laboratory facilities and management meet the requirements of Chinese Pharmacopoeia and International Codex. Fully automated production equipment, strict Class D clean room control, and full process quality control and assurance ensure consistent and stable product quality.

GDL closely follows the changes in national and global related regulations, actively participates in the construction of industry standards and norms, makes timely adjustments to respond and communicate with customers, and follows the compliance requirements.

20+
Quality self-inspection project

100%
Exterior defects inspection

35+ Exterior defects inspection 160+ SOP Regulations

**24h**Online quality monitoring

13000+m<sup>2</sup>
Online quality monitoring



# **Factory Display**

### GDL Capsule (Guizhou) Co., Ltd.

- Founded:Aug. 2016
- Address:Daping Industrial Park, Economic and Technological Development Zone, Duyun City, Qiannan, Guizhou, China.
- All the introduction of Taiwan's latest fully automatic double-head high-speed capsule production line, a phase in July 2020 put into operation, with an annual output of 13 billion empty capsules of various species.
- It is the newest and the most complete capsule production factory of GDL.







GDL Capsule (Shanghai) Co., Ltd

- Founded:Jul.1992
- Address: No.18, Lane 220, Beiwu Road, Minhang District, Shanghai, China.
- The factory has installed 20 fully-automated hard capsule production lines, with an annual output of 6.5 billion empty capsules of various types.
- It is the research and development, training and new equipment testing centre of GDL Capsules Group.













## Contact Us











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