



Welcome to Hengdian!





橫店集团成员企业

2016



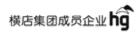
















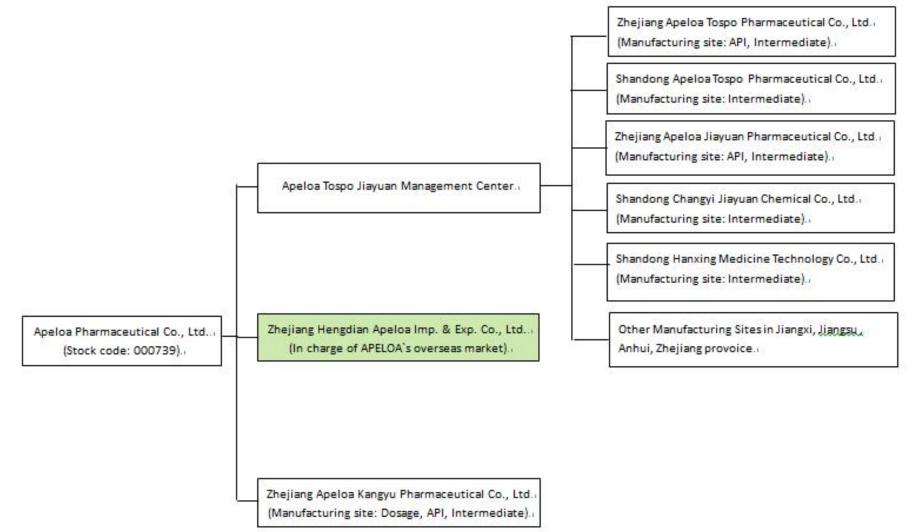
- 180 km away from Hangzhou City
- 380 km away from Shanghai City







Apeloa Organization







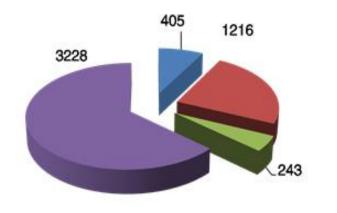
- 5 manufacturing site approved by cGMP
- 2 API site approved by USFDA site inspection
- Some products approved by USFDA, KFDA and PMDA
- ISO9001, ISO14001, OSHAS18001 certified
- Passed several top US, European Pharmaceutical companies' EHS audits



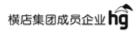




- 300 R&D, 32 Ph.D
- The Recruitment Program of Global Experts: Dr. Tang Xiaoping and Dr. Wang Xiaoju
- 30 people with oversea working experience



- Senior professional titles
- Intermediate title and technician
- licensed pharmacist
- Others







Integrated product chain

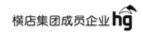
Intermediate — API — Finished Dosage — Sale (home and abroad)

• Various drug forms

- > API (β -Lactam ,tumor, and others)
- Oral preparation (tablet, capsule , particle and etc.)
- Injection (liquid, powder)
- Sustained/Controlled release drugs

Wide treatment area

- Anti-infection
- Cardio-cerebrovascular
- Anti-tumor
- Digestion







Total Capacity in Multi-purpose Workshop

Apeloa Jiayuan: 367 m³

Apeloa Tospo: 534 m³

Apeloa Jiayuan		Apeloa Tospo		
Vessel Size	Amount	Vessel Size	Amount	
100 L & 200 L	5	100 L	20	
500 L	16	500 L	25	
1000-1500 L	30	1000 L	40	
2000-3000 L	94	3000 L	50	
5000 L	2	5000 L	55	
8000 L	7	8000 L	3	
10000 L	2	10000 L	3	

横店集团成员企业的





R&D centers	HPLC (Waters & Agilent)			LC-MS	
	GC (Shimadzu & Agilent)		GC-MS		
	NMR (300 MHz)		DSC/TGA Others		
	HPLC	UV-Vis	LOD		Laser Particle
QC Lab	GC	Polarimeter	Sulfated Ash		Size Analyzer
	IR	KF titrator	Stability Chamber		(Malvern)
	тос	Microscope	Incubator		Others
Contract Lab	XRD NMR (500 MHz)				





Cefixime (capsule, dispersible tablet)

➤Cefdinir capsule

Amoxicillin and Clavulanate Potassium Capsules

➤Cilnidipine Tablets

Flucloxacillin sodium for injection

Diisopropylamine ascorbate







- Bupropion HCl
- Cefixime
- > Cefprozil
- > Cefdinir
- > Florfenicol

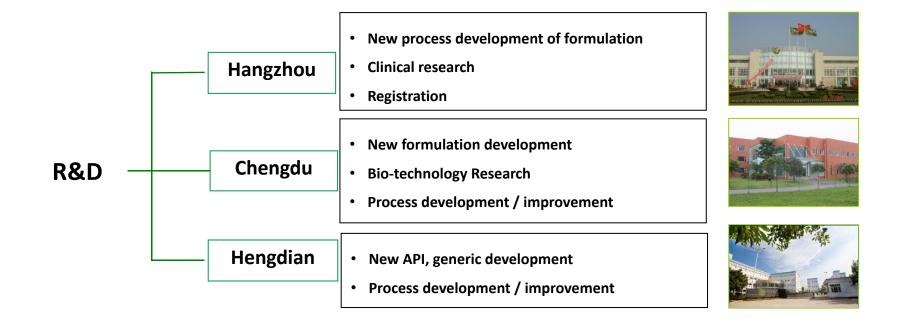
Intermediate

- PHPG Dane Salt, PG Dane Salt, D-PG
- > OTBN









Associated partner: PKU, ZJU, ZJUT, etc.





- National-recognized Enterprises Technology Center
- National Post-Doctoral Work Station
- Academician Workstation
- Develop over 30 products annually
- Own more than 20 product with independent intellectual property rights
- Own 40 invent patents





Expertise

Reaction Type:

 \star Chiral synthesis and resolution

Grignard

High vacuum Distillation

Oxidation

***** Fermentation and Enzyme Catalyzed Reactions

Temp. range:

-80~250°C

Pressure range:

-0.1~5×10⁶ pa

- ★ Fluorination/Halogenation
 - Cyanogenation
 - Alkylation
 - **Impurity Study**

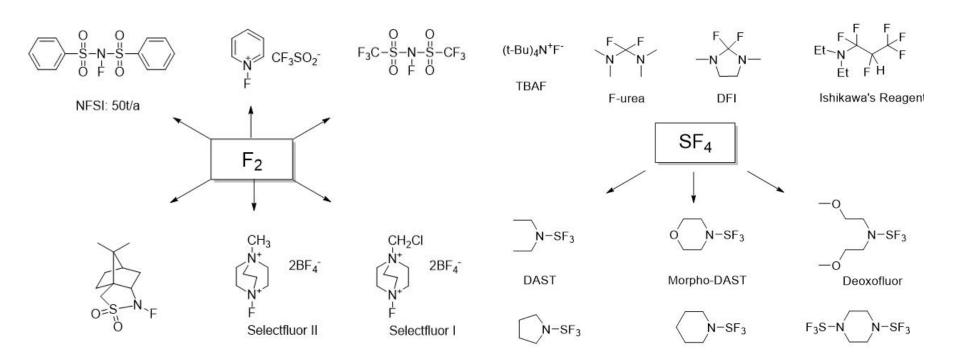
Polymorphism Study





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Fluorination

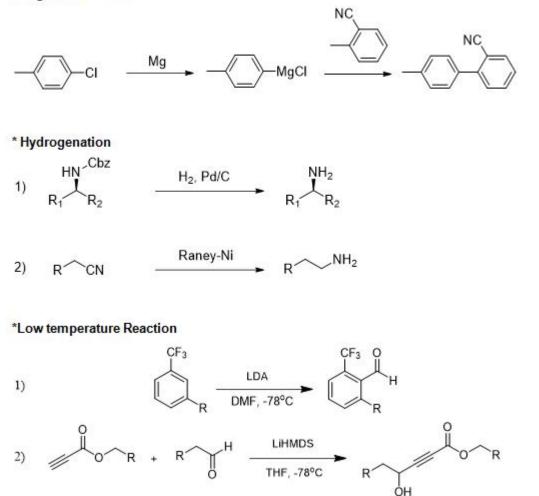


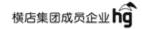


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*Grignard Reaction





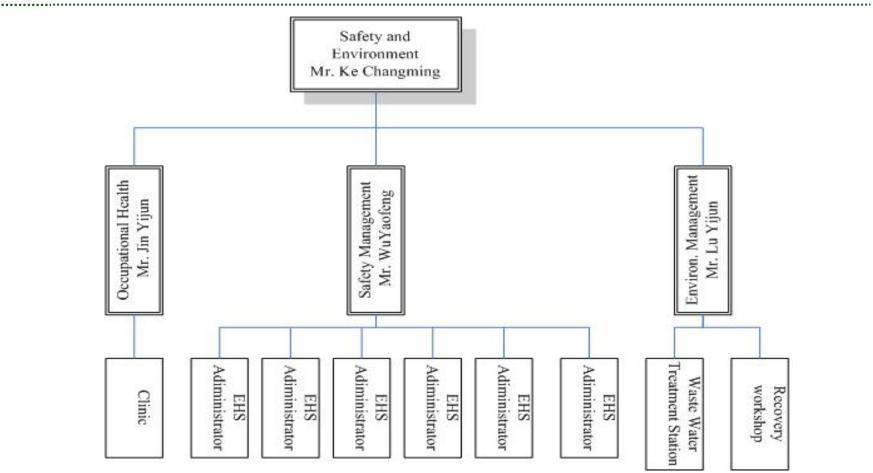


EHS System















- No Severe Injury ;
- No Major fire and explosion accidents;
- > No Occupational disease;
- Year Rate of slightly wounded cost working day ≤0.3%;
- > No Major Environmental Pollution Accident and No Government Warning;
- > Discharge Waste Gas and Water after Meeting the Standard;





EHS Management System

- Spillover control
- Chemical management
- Special work permit
- VOC
- LOTO
- Accident
- PPE
- Emergency issue

- New product
- Contractor
- Staff training







The waste water treatment daily capacity: 3000mt

Daily incoming waste water: 2100mt

Releasing standards: COD≤800ppm

Ammonia Nitrogen ≤35ppm



Waste water treatment station











Incinerator capacity: 300kg/h(solid), 200kg/h(liquid)

More than 10 suits of waste Gas treatment facilities at present.









Cover the sewage tank

Lock out











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PPE training

Emergency drill











Emergency material







Training



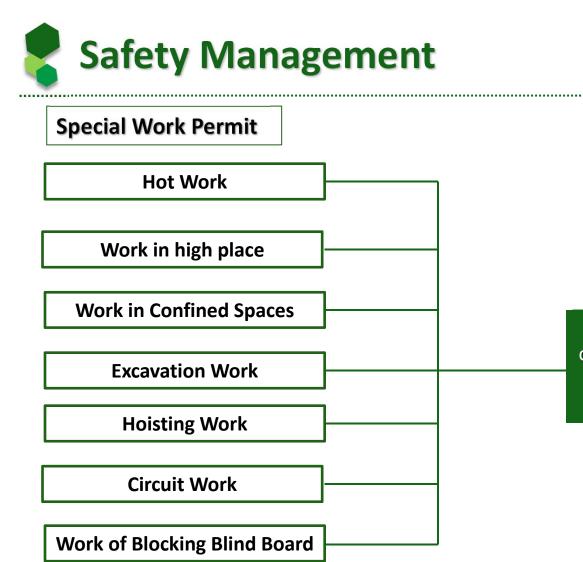


Newcomers: safety education of three-degree level **Staffs:** periodically safety training

EHS staff: technical examination







When everything is considered and approved, the operation can be permitted









- Periodically arrange physical examination in Dongyang People's Hospital and Jinhua centers for diseases control and prevention
- Establish the health records.



Quality System







✓ TOSPO site:

Time	Audit organization	Audit content	
2008.08	SFDA	GMP Audit	APIs
2011.11	Ministry of Agriculture	GMP Audit	APIs for veterinary use
2012.06	SFDA	GMP Audit	APIs (New version GMP)
2012.08	PMDA	GMP Audit	Advanced Intermediates
2013.04	SFDA	GMP Audit	APIs
2014.03	FDA	GMP Audit	API starting material, intermediate and veterinary API





✓ Jiayuan site:

Time	Audit organization	Audit content	
2007.05	FDA	GMP Audit	APIs
2009.01	FDA	GMP Audit	Advanced Intermediates
2009.12	SFDA	GMP Audit	APIs
2012.01	SFDA	GMP Audit	APIs (New version GMP)
2012.05	FDA	GMP Audit	APIs
2012.08	SFDA	GMP Audit	APIs
2014.03	Korean FDA	GMP Audit	APIs
2014.05	FDA	GMP Audit	APIs

All of the audits passed without 483.



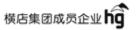


Main Responsibilities

- Material Release and Rejection
- Documentation Management
- GMP Training
- Supplier Management
- Change Control Management
- Deviation Management



- Validation Management
- Customer Complaint Management
- Stability Management
- Reserve Samples Management
- Audit Management
- Quality System Review







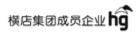
Main Responsibilities

- Test of raw materials, intermediates and final products
- Stability Test
- Environmental Monitoring
- Purified Water Monitoring





- Standards Management
- Calibration







- Documentation Management
- Suppliers Audit
- OOS
- Deviation and CAPA
- Change Control
- GMP Self-audit
- Stability Test

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- Validation Management
- Customer Complaint
- Recalls and Returns







- Established Year: 1990
- Site Area: 166,500 M²
- Employees: 810
- Product Area: Intermediates, Veterinary, Formulation, CMO
- Regular product: Cephalosporin intermediates



- Established Year: 1991
- Site Area: 477,000 m².
- Employee: Around 2400
- Product areas: APIs, Advanced intermediates, CMO
- Regular product: Metoprolol, Bupropion, etc.

Zhejiang Apeloa Kangyu Pharmaceutical Co., Ltd



- Established Year: 1993
- Site Area: 460,000m2
- Employee: Around 1300
- Product areas: Bio-fermentation, chemical drugs, Intermediates
- Regular product: Colistin sulfate, etc



Thank You!



