

Dongbang FTL

for Wellbeing and Wellaging



♦ We are located in...







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HOMEPAGE

www.DongbangFTL.com



♦ History of Dongbang FTL 1/3



1990.02	Corporate Organization
1991.06	Completion of factory
1991.08	Acquisition of permission for pharmaceutical raw material manufacturing
1994.01	Finished enlargement of building for management office and factory
1996.02	Establishment of affiliated technique research institute
1996.04	Authentication of ISO 9002/EN ISO 9002/KS A 9002
1996.12	Increase of pharmaceutical raw material manufacturing facilities
1997.03	Change company name to DONG BANG FUTURE CHEMICAL CO., LTD.
1999.04	Completion of Cosmetic factory (Amiesay cosmetic)
1999.06	Authentication of Australian GMP (TGA)
1999.11	Award of prize for the minister of the industry resources administration in the trade day
1999.12	Award of prize for the foreign frontier field of Gyeonggi-Do
2000.05	Authentication of BGMP by Korea Food and Drug Administration
2000.06	Increase of Cosmetic manufacturing facilities
2001.11	Selected INNO-BIZ enterprise(medium sized business office)

♦ History of Dongbang FTL 2/3



2002.11	Change company name to DongBang Future Tech & Life co., LTD
2003.12	Authentication of KS Q ISO 9001 :2001 / ISO 9001 : 2000
2004.04	Authentication of BGMP for Herbal product by Korea Food and Drug Administration
2006.04	Authentication of Australian GMP (TGA) following ICH guideline
2006.10	Acquisition of certificate of suitability for Mefenamic acid from EDQM
2009.03	Authentication of KGMP
2009. 05	Authentication of Australian GMP (TGA)
2009. 10	Acquisition of certificate of suitability for Ketoprofen from EDQM
2010.10	Inspection of KGMP by Korea Food and Drug Administration
2010.12	Authentication of KS Q ISO 9001 :2009 / ISO 9001 : 2008
2011.03	Authentication of Chemical BGMP by Korea Food and Drug Administration (Product GMP for Loperamide)
2011.05	Authentication of Herbal BGMP by Korea Food and Drug Amhistration (Product GMP for Pelargonium sidoides)
2011.07	Inspection of KGMP by Korea Food and Drug Administration
2011. 11	Authentication of Australian GMP (TGA)

♦ History of Dongbang FTL 3/3



2013.07	Authentication of BGMP by Korea Food and Drug Administration
2013.03	Authentication of Japanese GMP by on-site audit of PMDA
2012.12	Authentication of KS Q ISO 9001 :2009 / ISO 9001 : 2008
2012.10	Authentication of KGMP for Quasi Drug by Korea Food and Drug Administration
2012.03	Authentication of BGMP by Korea Food and Drug Administration
2011.12	Authentication of KS Q ISO 9001 :2009 / ISO 9001 : 2008



◆ Major Activities of DongbangFTL





Chemical API



Finished Product









♦ The number of employees

	QC	25
Quality	QA	10
Related Systems	Production	30
(100)	R&D, Regulatory	30
	Warehouse	5
	Sales & Marketing	5
Others (30)	Administration	10
	Other support service	15

◆ Size Idea of Dongbang FTL

Place	Area
Total Area of Factory	16,179.32 m ²
Plant for Chemical API	5,718.23 m ²
Plant for Herbal API	262.94 m ²
Laboratory	493.23 m ²
Warehouse	636.60 m ²
Other Facilities	9,068.32 m ²



Active Pharmaceutical Ingredients

'Quality-Assured API with Toll Manufacturing Service'



GMP Approved by...





Australian Government

Department of Health and Ageing Therapeutic Goods Administration

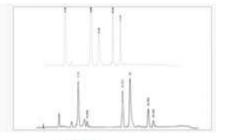


Natural Active Ingredients

"1st Approval of BGMP for Natural Active Pharmaceutical Ingredients in Korea and the best partner of joint research for new natural drugs."











◆ Strength of DongBang FTL



- 1. Abundant experience in Japanese Pharmaceutical business
 - Business with Japanese companies over 10 years
 - MF registration of 10 products in Japan and 5 new products on the preparation
 - Close communication and rapid response with customers by regular visit to Japan (over 10 times a year including CPHI Japan, Interphex)



◆ Strength of DongBang FTL



2. High GMP Standard

- Audit from Korean FDA and other country's MOH (PMDA in 2013, TGA in 2014, KFDA in 2014)
- Audit from Japanese and foreign companies (Pfizer and Bayer) every year.
- No "Major or critical observation"

3. Stable Product Supply

• Multiple sources for starting materials & intermediates

 New API plant to increase production line and New Chemical Plant under GMP control (scheduled in 2015)

◆ Strength of DongBang FTL



4. High Technology

- Many patents for high quality API
- Various analytical equipments
- Cooperation with various organizations and universities under the mutual agreement

5. Easy Access

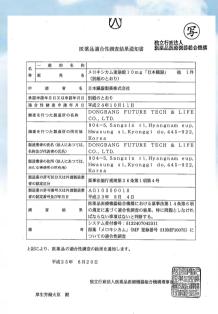
• Minimization of quality problem while transporting (by air: 1day, by sea: 3days)

• Rapid response & solution in case of problems occurring

◆ Representative Certificates of Dongbang FTL 1/2











TGA Authentication PMDA Authentication KGMP Authentication BGMP Authentication



◆ Representative Certificates of Dongbang FTL 2/2





Mefenamic acid COS

Ketoprofen COS

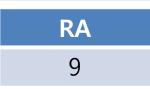


Number of Lab & RA People

LAB			
Male	Female		
14	7		

Degree	People
PhD. degree	5
MSc. degree	6
BSc. degree	10

Director (1)		
Synthetic	Analysis	Pilot
team	team	team
12	3	6





• Total: 30

Laboratory









Status of Major Patent 1/2

2003

• (Process for preparation of 5-substituted Indole Derivatives)

2004

• (Process for preparation of Gugulsterons)

• 1004460680000

• 1004115990000

- (Process for preparation of the Propiverine Hydrochloride)
- 1005007600000

2005

- (Process for preparation of the Propiverine Hydrochloride from O-n-Propylbenzylic Acid)
- 1005107880000
- (The method of manufacturing of the extract from the Platycodon Grandiflorum A. DC)
- 1005131620000















Status of Major Patent 2/2

- (Composition of Skin cream for acnes)
 - 1009830760000
- (Industrial process of high purity Olmesartan Medoxomil)
 - 1010903250000
- (Industrial process of high purity Olmesartan Medoxomil)
 - 1011345050000
 - (Process for preparing crystalline polymorphic form A of high purity Pitavastatin Calcium salt)
 - 1011585170000
- (Efficient process of Solifenacin and it's salt)
 - 1012980460000
- (On the registration for process patents of Silodosin, Entecavir and Sitagliptin)











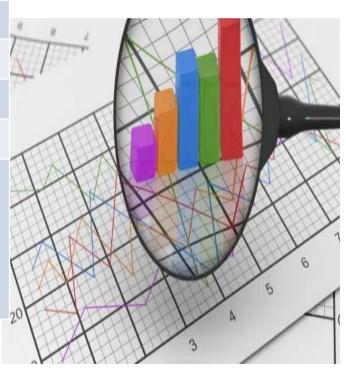


Japanese MF Status of Major Products

Products	Specification	Category	Remarks
Entecavir	IHS	Anti-Viral	- KDMF, JDMF®
Felbinac	JP, BP, EP	Anti-Inflammatory	-EDMF, JDMF, KDMF
Irsogladine Maleate	JP	Anti-Ulcerative	- KDMF, JDMF
Ketoprofen	USP, BP, EP	Anti-Inflammatory	- COS, JDMF
Levofloxacin	JP	Anti-Bacterial	- KDMF, JDMF
Loxoprofen	JP	Anti-Inflammatory	- KDMF, JDMF
Meloxicam	ВР	Anti-Inflammatory	-EDMF, JDMF, KDMF
Olmesartan Medoxomil	EP	Anti-Hypertensive	-COS®, JDMF, KDMF
Silodosin	IHS	Anti-Prostatic Hyperplasia	-EDMF®, JDMF®, KDMF
Solifenacin Succinate	IHS	Anti-Spasmodic	- KDMF, JDMF®
Tamsulosin Hydrochloride	BP, EP, JP	Anti-Spasmodic	-JDMF®
Telmisartan	BP, EP	Anti-Hypertensive	- JDMF

Number of Quality People

	Task	People	
QC	Chemical API	14	
	Herbal API	2	
	Finished Product	6	
	Microorganism	3	
	APQR/Complain/Release		
\bigcirc	Deviation/OOS/Change Control	10	
QA	Self inspection/Returns/Training	10	
	Document SOP/Vendor audit		
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• Total : 35











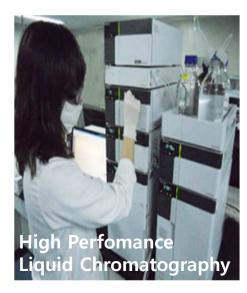
Quality Equipment

















Quality Equipment

Q.C Lab

Equipment	EA
HPLC	14
GC	3
Infrared Spectroscopy	1
UV-VIS Spectrophotometer	1
Muffle Furnace	1
Particle Size Analyzer	1
Karl-Fisher	1
Total Organic Carbon Analyzer	1
Atomic Absorption Spectrophotometer	1

Equipment	EA
HPLC	5
GC	1
Polarimeter	1
Melting point meter	1



◆ Introduction of New API plant











<Outside of the plant>

◆ Actual photos of new plant 2/2









<Tray Dryer> <API Reactor> <Absorption tower>



New API Equipment List

Equipment name	Capacity	Number	Note
STS Reactor	3M ³	3	
G/L Reactor	3M ³	2	
STS Reactor	6M ³	1	
G/L Reactor	5M ³	1	
Tray Dryer	1M ³	2	
Rotary Dryer	2M ³	1	
Rotary Dryer	1.5M ³	1	
Centrifuge	40"	2	Install soon



Thank you



Authentication

B G M P Authentication

KGMP Authentication

P M D A Authentication

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