

Leading Global CDMO for Injectables

# PENMIX

YOUR CHALLENGE,  
OUR SOLUTION

 PENMIX LTD.



# PENMIX

Grounding itself with the sense of duty and responsibility as a life science company, PENMIX is fully committed to the globalization of the Korean pharmaceutical industry and the development of quality pharmaceutical products.

Since its founding in 2002, Penmix Ltd. is a leading CDMO-centric pharmaceutical company in Korea dedicated to the globalization of the Korean pharmaceutical industry and the development of quality pharmaceutical products with the belief that PENMIX protects the life and health of the humankind, prioritizing the importance of life.

PENMIX is a life science company consisting of healthy-minded people that remain dedicated to its role and has been working tirelessly as a global pharmaceutical company contributing to improving the quality of life.



## History of PENMIX

**2022~** Acquiring EUGMP and expecting to receive cGMP for expanding the business

**2020  
~2021** Achieved B2B exporting revenue of 20 million USD in Asian market and total of 60 million USD including domestic sales

**2018  
~2019** More than 90 million USD supply contracts made in Japan and countries of Southeast Asia, Middle-East and South-America

**2016** Completed expansion of the General inj. Factory

**2014** Completed the pre-filled syringe line for injection plant  
Received Minister's Commendation at the National Productivity Award

**2013** Completed Injectable Factory construction  
GMP certification Approval for Injectable Factory by KFDA

**2011** Established the automated warehouse  
Initiated Injectable Factory construction

**2010** Designed concept for the new injectable plant (EU / cGMP grade)  
Awarded for "Large and Small business Cooperation" by the Prime Minister

**2008** Received a 10 million USD Export Tower Award from KITA(Korea International Trade Association)

**2007** Acquired the Accreditation of Foreign Manufacturers from PMDA and expanded market to Japan

**2003** Acquired KGMP certification

**2002** Separated from its parent Company Khunil Pharma. Established its Headquarters in Korea.



# Why PENMIX



Reliable & Secure Supply

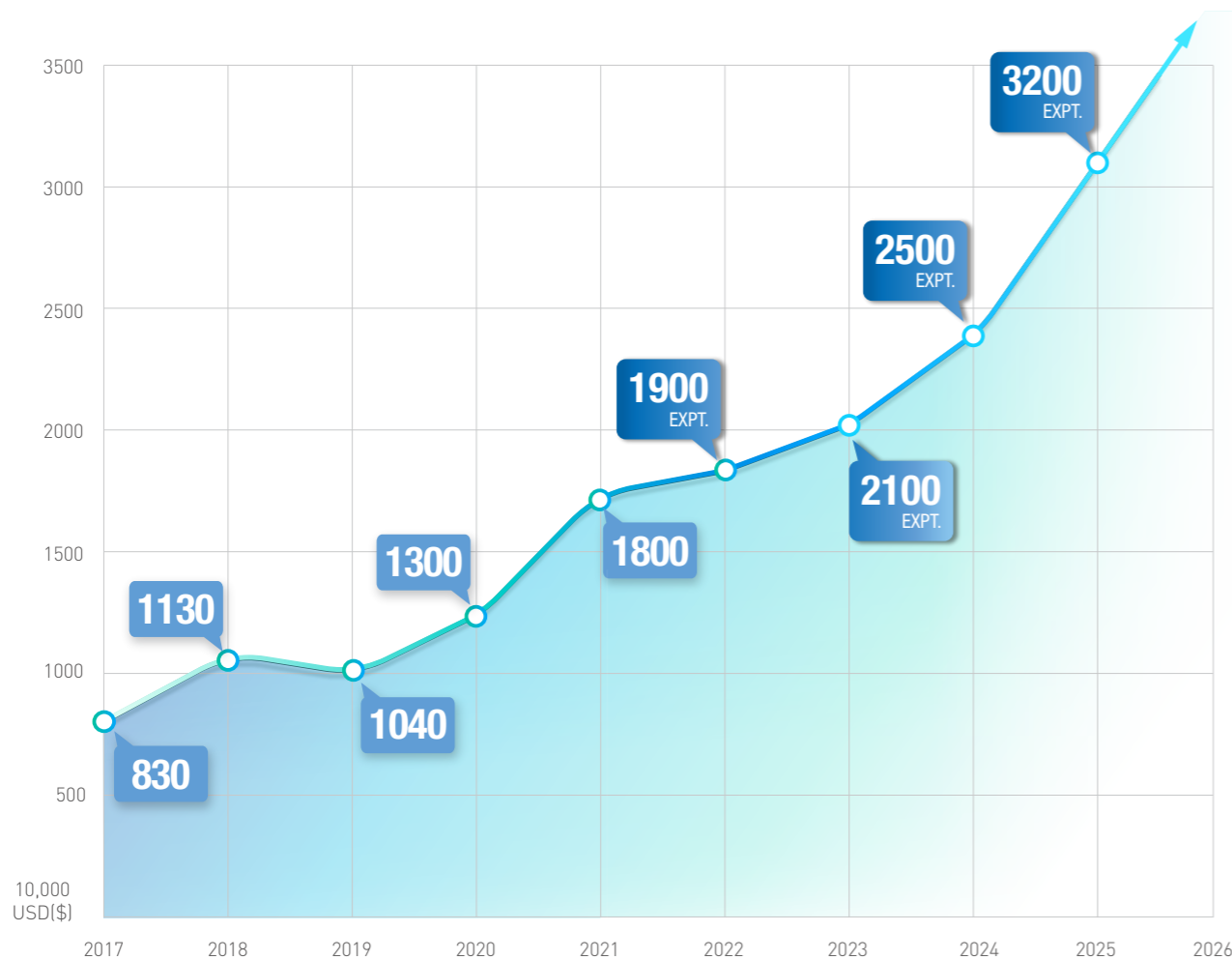


Solid Financial Structure



South Korea - Distribution Hub

## Revenue chart



## Expertise

### Plant 1

#### Penicillin

##### Largest capacity in Korea

- No.1 market dominator in Korea and Japan
- Oral (tablet & suspension) Injectable (powder-filled & lyophilized vials)
- Commercialized in Cambodia, Japan, Macau, Malaysia, Mongolia, Myanmar, Singapore, Philippines, Vietnam and etc.

### Plant 2

#### General Injectable

##### One of largest Injectable manufacturing sites in Asia

- Lyophilized, solution, powder, PFS, vials& bottles
- Commercialized in Japan, Turkey, Philippines, Vietnam and etc.

## Key Business Aspects of PENMIX



### CDMO

**As one of the top CDMOs, excellent understanding over pharmaceutical product**

PENMIX maximizes the business efficiency by conducting the whole process of research planning, development, licensing, manufacturing, and so on. As we are an organization specialized in penicillin and injectables, we have our own R&D and RA specialists for whole CDMO project management.

Currently, we are an organization specializing in penicillin and injectables in accordance with global standards, and our aim is to grow into a professional research and development organization for all types of formulations in the future.

### Growth

**As a continuously growing company, aggressive on extending the market share**

Since its foundation in 2002, PENMIX has been leading CDMO-centric pharmaceutical company in Korea dedicated to the globalization of the Korean pharmaceutical industry and development of high quality pharmaceutical products. The virtuous circle of management system by profit-reinvestment has been the major growth factor for PENMIX since its foundation. It has constantly invested in developing high-value and differentiated products that require a challenging level of technology.

### Global Network

**Pre-Existing Partner Network in Overseas market**

PENMIX, as an experienced CMO and CDMO, is offering the best solutions and products to its global customers including Japan, Europe and countries of the GCC and ASEAN. Especially Penmix affiliates with import/export specialist of pharmaceuticals in Japan as sister-company, Ohsong Pharm and Brio Pharma, and also planning to enter the Europe and USA market to become the genuine global leading company.

## Marketing Capability

# GLOBAL MARKET

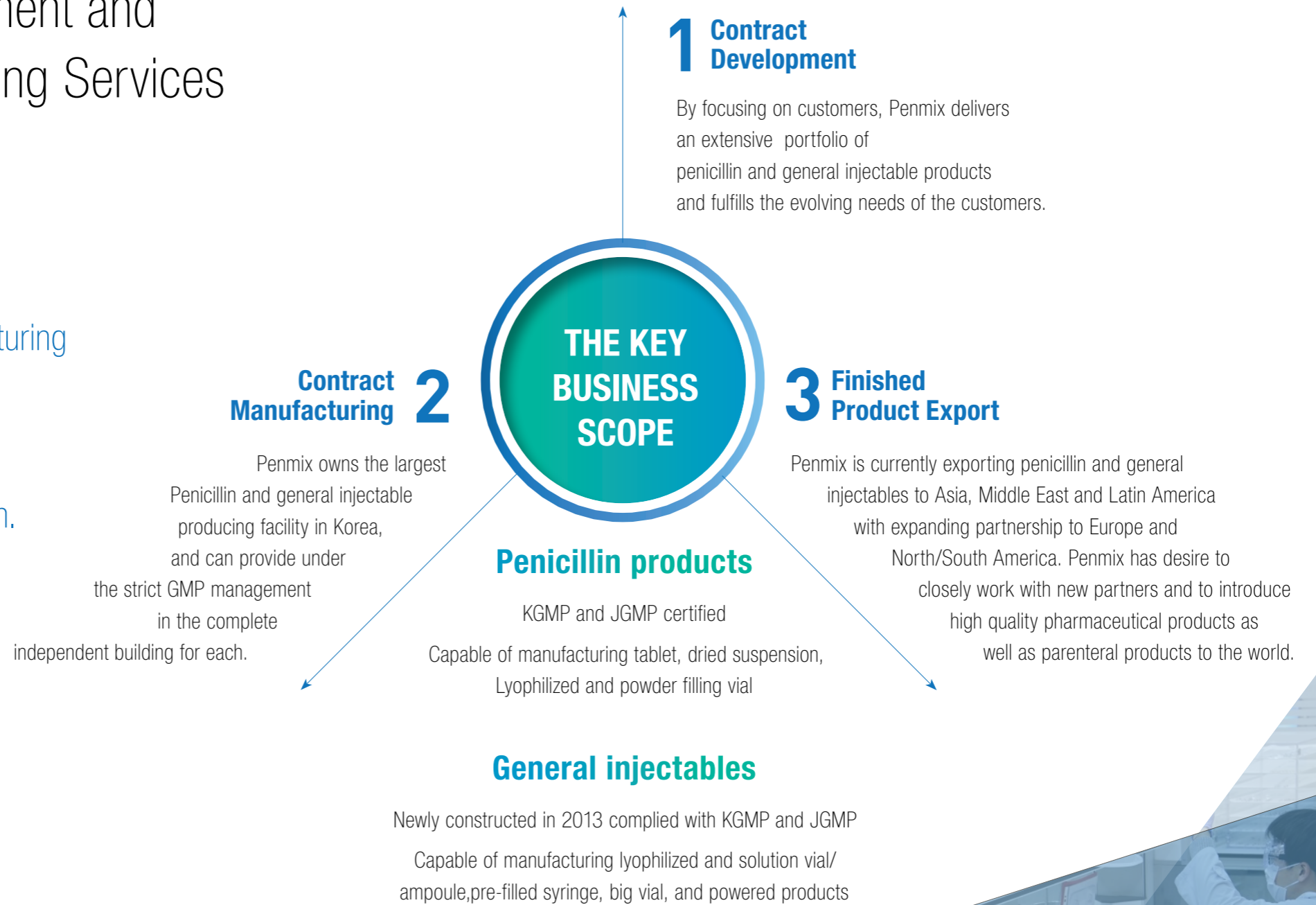
Main target market is **Japan**, and we are preparing to expand to the big market like **USA** and **EU**.  
As we are approved by the strict **PMDA** standard and expecting to receive **EUGMP** and **CGMP**,  
we are globally recognized as **high quality supplier for CMO/CDMO**.



# Key Business Scope of PENMIX

## Across the Development and Contract Manufacturing Services

PENMIX LTD. is engaged in the customer value across the development and manufacturing spectrum for safe and high quality products to meet customer's expectation.



# Product Of **PENMIX**

**Product** » We develop and manufacture high-quality completed products of penicillin and general injectables through cutting-edge manufacturing site and professional researchers.

**Manufacturing process** » Aiming for euGMP and cGMP to make an expansion into the advanced market, we provide penicillin and general injectables with 0% return quality control.

**Research & Development** » We maximize the efficiency of our business by conducting research planning, product development, research activities and obtaining approvals and licenses all together.

**01** Penicillin

**02** General Injectables

**03** Developing Products





# 01

Product Of PENMIX

## Penicillin

### 1 Injectables

Composition	Package	Batch size
Amoxicillin Sodium 0.5 g (Potency) Pot. Clavulanate 0.1 g (Potency)	10 vials	80,000 vials
Amoxicillin Sodium 1 g (Potency) Pot. Clavulanate 0.2 g (Potency)	10 vials	50,000 vials
Piperacillin Sodium 1 g (Potency)	10 vials	54,000 vials
Piperacillin Sodium 2 g (Potency)	10 vials	32,000 vials
Ampicillin Sodium 0.5 g (Potency) Sulbactam Sodium 0.25 g (Potency)	10 vials	80,000 vials
Ampicillin Sodium 1 g (Potency) Sulbactam Sodium 0.5 g (Potency)	10 vials	50,000 vials
Amoxicillin Sodium 0.5 g (Potency) Sulbactam Sodium 0.25 g (Potency)	10 vials	80,000 vials
Amoxicillin Sodium 1 g (Potency) Sulbactam Sodium 0.5 g (Potency)	10 vials	50,000 vials
Piperacillin Sodium 2 g (Potency) Tazobactam Sodium 0.25 g (Potency)	10 vials	20,000 vials
Piperacillin Sodium 4 g (Potency) Tazobactam Sodium 0.5 g (Potency)	10 vials	30,000 vials

### 2 Oral dosage

Composition	Package	Batch size
Amoxicillin Trihydrate 125 mg (Potency) Pot. Clavulanate 62.5 mg (Potency)	9 Tablets 10 Tropical Blisters	1,000,000 Tablets
Amoxicillin Trihydrate 250 mg (Potency) Pot. Clavulanate 125 mg (Potency)	10 Tablets 10 Tropical Blisters	500,000 Tablets
Amoxicillin Trihydrate 500 mg (Potency) Pot. Clavulanate 125 mg (Potency)	4 Tablets 10 Tropical Blisters	350,000 Tablets
Amoxicillin Trihydrate 437.5 mg (Potency) Pot. Clavulanate 62.5 mg (Potency)	8 Tablets 10 Tropical Blisters	450,000 Tablets
Amoxicillin Trihydrate 875 mg (Potency) Pot. Clavulanate 125 mg (Potency)	4 Tablets 10 Tropical Blisters	250,000 Tablets
Amoxicillin Trihydrate 25 mg/mL (Potency) Pot. Clavulanate 6.25 mg/mL (Potency)	40 Bottles (50mL) 20 Bottles (500mL)	40,000 Bottles (50mL) 5,000 Bottles (500mL)
Amoxicillin Trihydrate 40 mg/mL (Potency) Pot. Clavulanate 5.7 mg/mL (Potency)	40 Bottles (50mL) 20 Bottles (500mL)	40,000 Bottles (50mL) 5,000 Bottles (500mL)



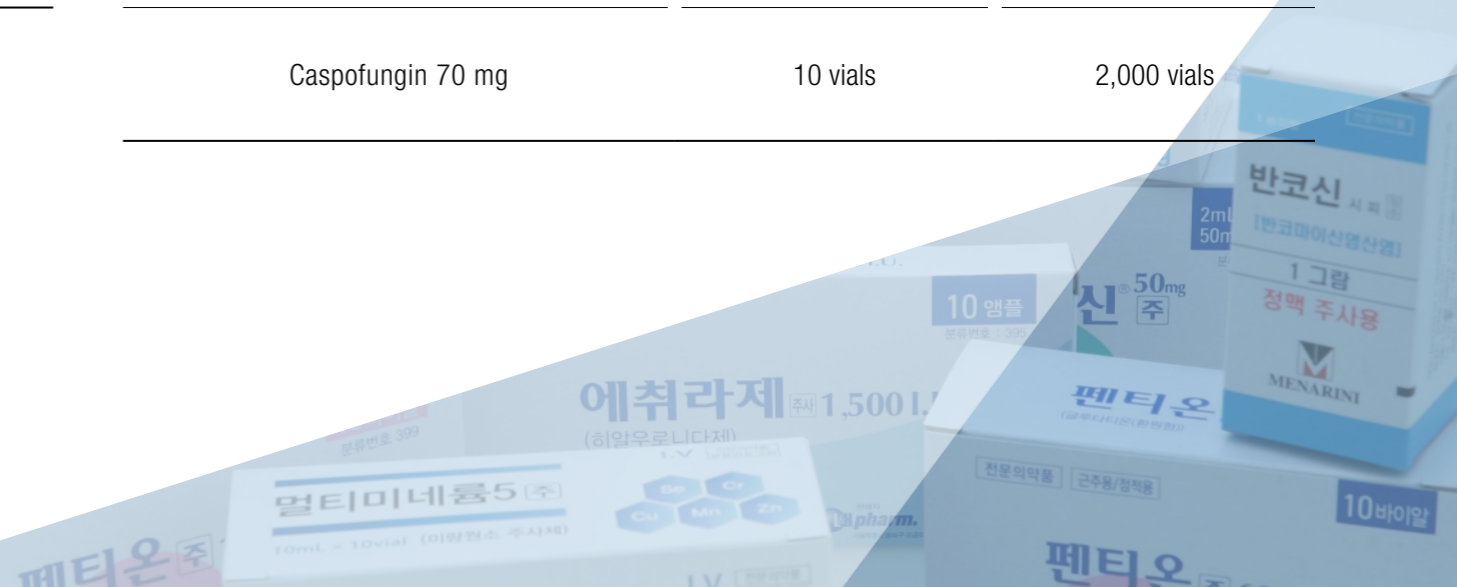
# 02 Product Of PENMIX General Injectables

## 1 Liquid vials

Composition	Package	Batch size
Ascorbic Acid 25g	1 vials	4,950 vials
Dexmedetomidine 118 ug/mL	5 vials	30,000 vials
Dexmedetomidine 236 ug/mL	5 vials	15,000 vials
Dexmedetomidine 590 ug/mL	5 vials	10,000 vials
Palonosetron 1.5 mg	5 vials	20,000 vials
Palonosetron 5.0 mg	1 vials	10,000 vials
Zoledronic Acid 5.33 mg/100 mL	1 vials	2,254 vials

## 2 Lyophilized vials

Composition	Package	Batch size
Daptomycin 500mg	1 vial	13,000 vials
Glutathione 600 mg	10 vials	30,000 vials
Glutathione 1,200 mg	10 vials	21,000 vials
Glutathione 2,000 mg	10 vials	22,352 vials
Vancomycin hydrochloride 500 mg	10 vials	50,000 vials
Vancomycin hydrochloride 1 g	1 vial	50,000 vials
Caspofungin 50 mg	10 vials	3,000 vials
Caspofungin 70 mg	10 vials	2,000 vials



# 03 Product Of PENMIX Developing Products

Composition	Strength
Sugammadex	2 mL, 5 mL
Deoxycholate Acid	2 mL vial, 1 mL PFS
Epinephrine(Auto Inj.)	0.3 mg/0.3 mL
Ferric Hydroxide	360 mg/2 mL, 1800 mg/10 mL
Daptomycin RF	350 mg, 500 mg

Composition	Strength
Ibandronate	1 mL PFS
Levofolinate Calcium	200 mg, 450 mg
Peramivir	150 mg/15 mL
Ramosetron	0.3 mg/2 mL



**[Head Office]**

14 Jeongdong-gil, Jung-gu, Seoul, Korea

Tel +82.2.2175.9844 Fax +82.2.703.8236 Email [sjlee9@penmix.com](mailto:sjlee9@penmix.com)

**[Manufacturing Plant]**

33 Georimak-gil, Jiksan-eup, Seobuk-ku, Cheonan-si, Chungnam, Korea

Tel +82.41.580.5900 Fax +82.41.580.5906

[www.penmix.com](http://www.penmix.com)



## **PENMIX-Penicillin + Mixture**

Established in 2002-Subsidiary of Kuhnle Pharm (Since 1969)  
No. 1 CMO & CDMO for Penicillin & General Injectables in Korea