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Company & Product Introduction





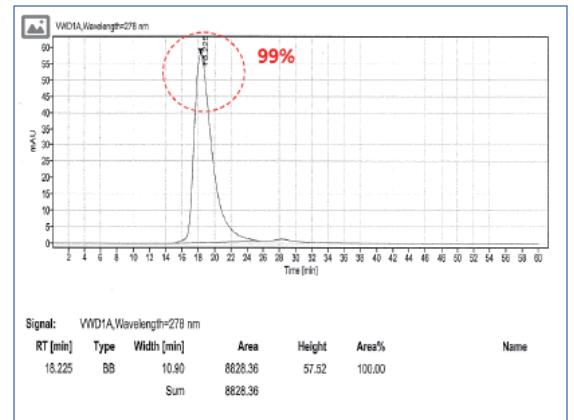
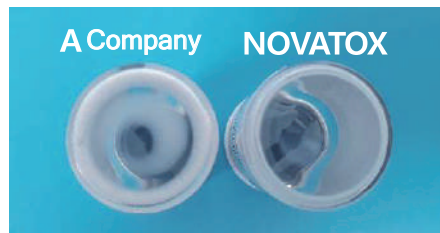
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KG Medix is a distributor of Medical Beauty products.  
We plan OEM products and provide global services  
at competitive prices.

We will do our best to provide Korean Medical Beauty  
products to countries around the world such as Europe  
and Southeast Asia.



# PRODUCT - NOVATOX



- Use of strains identified with Clostridium botulinum ATCC 3502
- Securing stable production process technology by simplifying the undiluted solution manufacturing process.
- Production of more than 99% of undiluted solution.

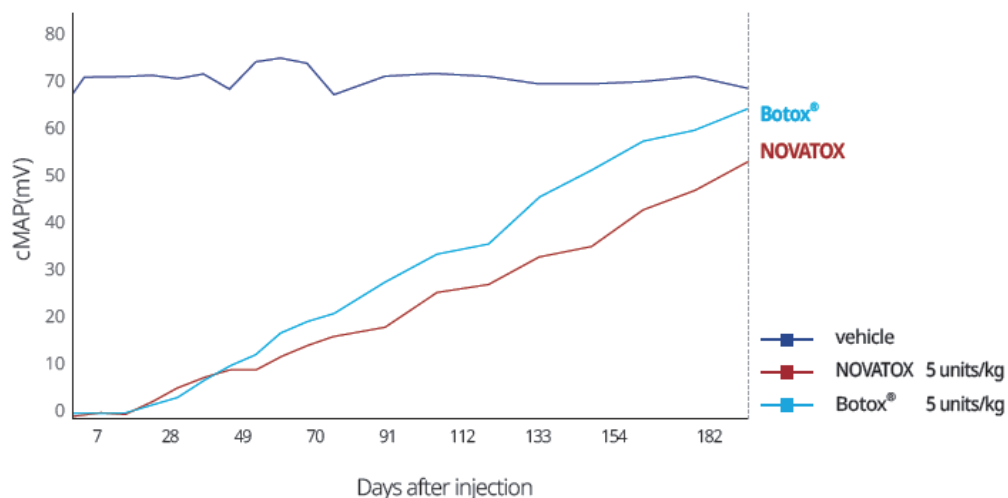


⇒ The amount of stock solution injected per vial is small, so the incidence of resistance is significantly low in the same product group.

## R&D status

### Non-clinical Test | Efficacy Study

- ▶ CMAP (Compound Muscle Action Potential)  
Electromyography Measurement



When single muscle administration is administered, it causes contraction suppression and muscle palsy effects depending on the concentration of administration. It was equivalent compared to the comparative substance Botox liquor, and it is judged that muscle contraction inhibition persistence is high at some doses (5 units/kg).

# STATUS OF MAJOR LICENSES

## Major license



KGMP License



Permit For Export



Phase I Clinical IND Approval

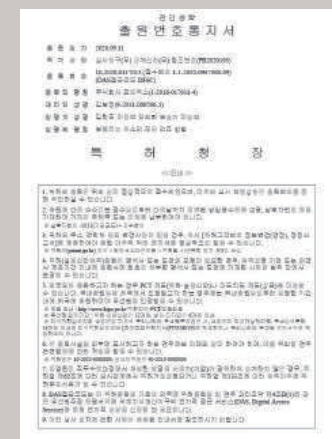
## Patent Application Status



Manufacturing process.  
Domestic patents and PCTs



Domestic patent  
for drying process



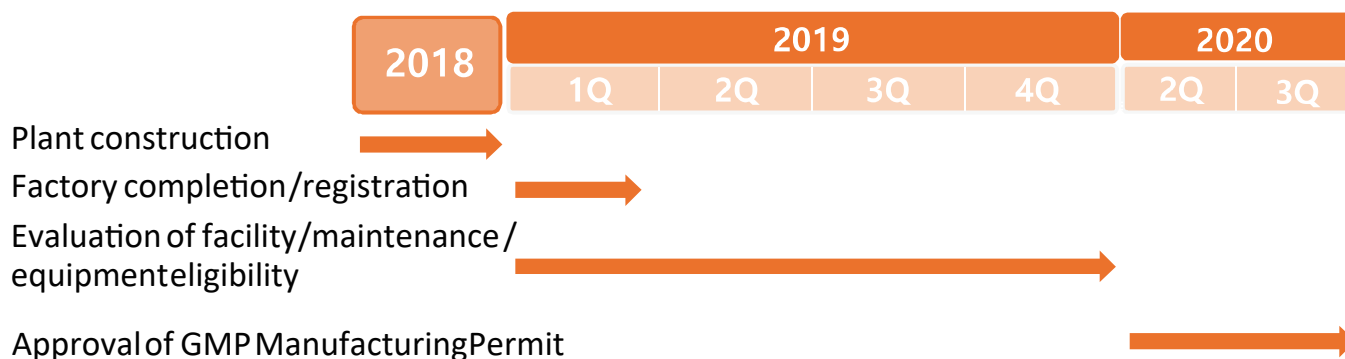
Domestic patent  
for drying process

# Technology development capabilities

Expect safe product production/ management through bio factories equipped with state-of-the-art production facilities



## ▶ Plant construction plan



During the construction of a new botulinum toxin production plant with a total floor area of about 6,230 m<sup>2</sup> (about 1,885 pyeong) in the Hyangnam Pharmaceutical Complex, the GMP plant is designed to meet the KGMP guidelines and is expected to be able to safely produce and manage botulinum toxins.

## ▶ Major facilities in the production plant

	Facilities / Equipment
Culture/refining	Fermentation machine (Single Use Bag System), FPLC, UF System, BSC
Drug Product	Washing machine, tunnel sterilizer, charger, automatic loading / unloading equipment, freeze dryer, capping machine, Autoclave, RABS
Labeling/packaging	Automatic labeling machine, automatic packaging machine, weight check equipment, 2D barcode system, Aggregation System
Quality control	Isolator, Sterility Test System, HPLC, Incubator
Utility/Facility	Manufacturing water manufacturing / distribution system, gas flow distribution system, HVAC bio kill system

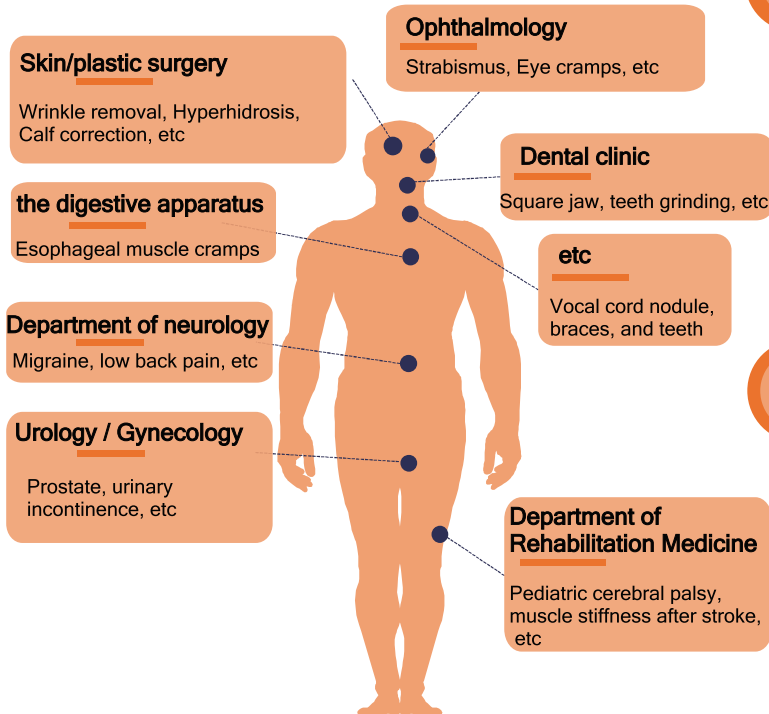
# Technology development capabilities

A bio factory equipped with state-of-the-art production facilities



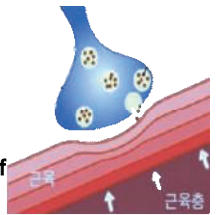
## Botulinum toxin is highly utilized in various muscle-related fields

### ▶ Botulinum toxin formulation



### Botulinum Toxin?

• Botulinum toxin (also known as Botox®) is a toxin produced by the development of Clostridium botulinum (C. botulinum)



• When it enters the human body, it gathers at the end of the nerve cell, enters the nerve cell, and prevents the secretion of Acetylcholine, a neurotransmitter, where nerves and muscles meet, resulting in muscle paralysis



### Botulinum Toxin Application

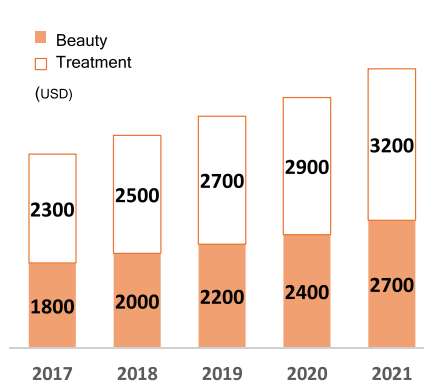
• Initially for cosmetic purposes, it has recently expanded to include various disease indications



## Market Status and Prospects

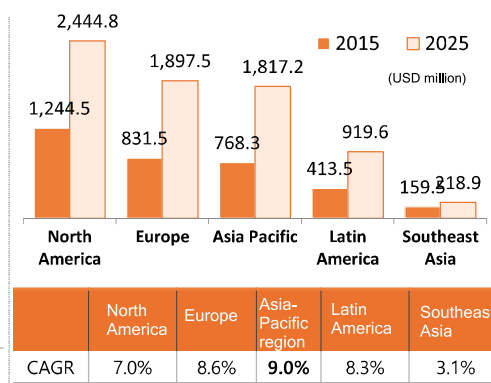
### Selling products targeting the rapidly growing botulinum toxin market

The demand for botulinum toxin will continue to grow



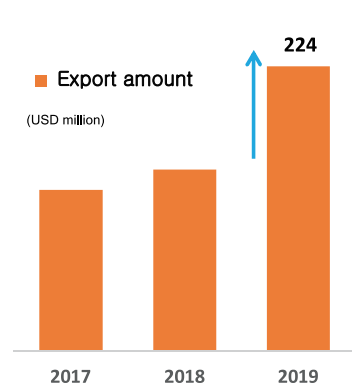
Source : Daedal Research

The global market for botulinum toxin



Source : botulinum Toxin Market, 2017

Botulinum toxin market by region



Source : Korea Trade Statistics Promotion Agency 2020, reprocessing

Export performance of botulinum drugs by domestic companies



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