

Clostridium botulinum toxin Type A complex



### 🕅 HJ corporations

# What is TOXPIA?

Toxpia is a Clostridium Botulinum Toxin Type A, which is manufactured and distributed by **HJ Corporations**.

Classification	Medicine		
Active Ingredient	Clostridium botulinum toxin type A		
Contents(1vial)	Clostridium botulinum toxin type A 100 units Human Serum Albumin 0.5 mg Sodium chloride 0.9 mg		
Appearance	A white or light yellow lyophilisate contained in a colorless and transparent vial and is a transparent solution when dissolved in saline.		
Effect	Temporary improvement of moderate to severe wrinkle lines (such as glabella lines) for adult patients		
Mechanism	A temporary reduction in muscle activity for medical and aesthetic use		

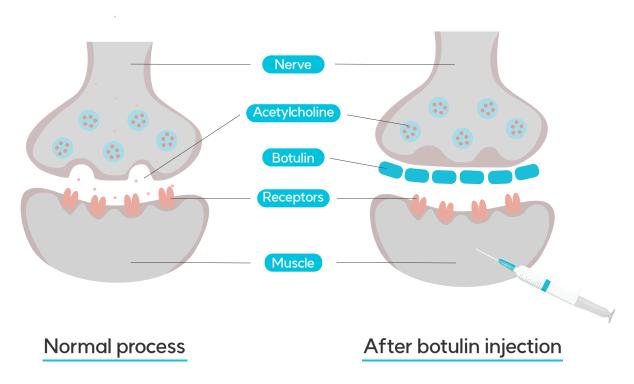




## How does TOXPIA Work?

The botulinum toxin shot blocks the release of acetylcholine\*. This way, the muscles are relaxed, reducing unwanted wrinkles.

\*Acetylcholine is the chemical signal which causes muscles to contract.



## Our Manufacturing Process



## 🗘 Our Manufacturing Plant



### / Our Certificates /

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## Why TOXPIA?

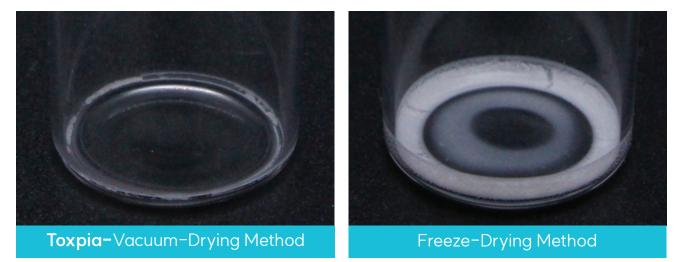
### 1 Stability Test

Toxpia's excellent product stability has been proven through clinical trials.

Specification	should be 80% ~ 1	should be 80% $\sim$ 125% of the labelled potency per vial.				
Initial	101.9%	98.3%	100.2%			
1 month	98.4%	98.6%	100.6%			
3 month	105.0%	98.4%	101.7%			
6 month	99.3%	98.0%	96.2%			
9 month	97.5%	100.2%	98.1%			
12 month	95.6%	95.7%	95.1%			

#### 2 Vacuum-Drying Method

Toxpia is manufactured through the vacuum-drying method, which is the latest techonlogy that is used for manufacturing botulinum toxin.



As you can see in the picture above, there is no powder residue in the vial of the toxin that is manufactured using vacuum-drying method. This increases the purity of the product while minimizing the denaturalization of protein as the risk of foaming during the dilution process is significantly reduced.

#### **3** Quick Response Time

It is proven to be responsive within 72 hours after injection\*.

\* This may vary as per individual.

### PRE – Clinical Study

Both the safety & efficacy of TOXPIA have been successfully proven in a comparison study with company A's product.

Toxicity Test				
Study Type	Test System	Route	Doses	
Single Dose	Rat	IM	0, 6, 30, 150	U/kg
	Monkey	IM	0, 8, 16, 32	U/kg
Repeated Dose	Rat	IM	0, 1.5, 3, 6	U/kg
	Monkey	IM	0, 2, 4, 16	U/kg
Embryo - Fetal	Rat	IM	0, 1, 3, 9	U/kg
Development	Rabbit	IM	0, 0.1, 0.2, 0.4	U/kg

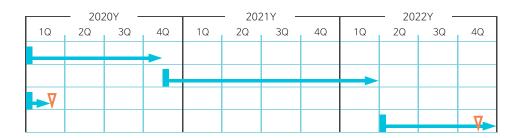
Safety Pharmacology				
Study Type	Test System	Route	Doses	
Cardiovascular System	CHO hERG cells	in vitro	0, 0.125, 0.25, 0.5, 1	U/mL
Respiratory System	Rat	IM	0, 1.5, 3, 6	U/kg
Central Nervous System	Mouse	IM	0, 4.5, 3, 6	U/kg

Efficacy Comparison – Company A's product				
Study Type	Test System	Route	Doses	
Efficacy test	Mouse	IM	4, 12, 40	U/kg

### Clinical Trial Timeline

TOXPIA is licensed for export and is completed the third phase of its clinical trial.

CLINICAL TRIAL PHASE |/|| CLINICAL TRIAL PHASE ||| EXPORT LICENSE ACQUIRED MFDS APPROVAL









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#### 🕅 HJ corporations

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