

ZEROTOX

Clostridium Botulinum Toxin Type A



PHILOSOPHY of “**ZERO**”
AIM for “**RESISTANCE**”

FEATURES



HIGH PURITY

HIGH EFFICACY

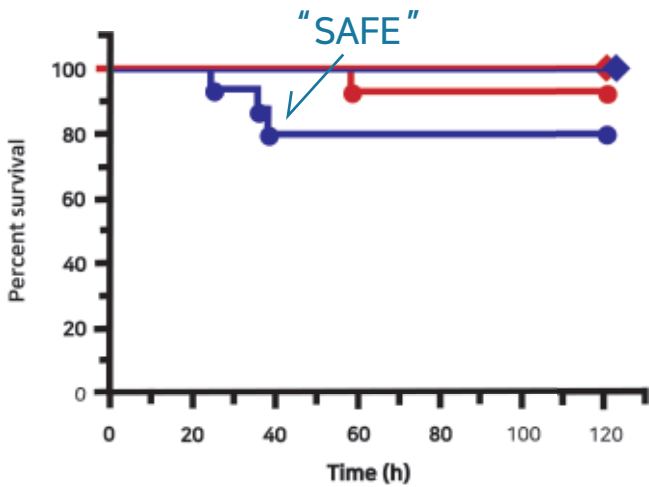
HIGH TECHNICAL VACUUM-DRYING

ZEROTOX 100UNITS / 1VIAL

Clostridium Botulinum Toxin Type A



Effects of purification on the bioavailability of botulinum neurotoxin type A



COMPARE

Purified BoNT/A with Crude BoNT/A

- ◆ Purified BoNT/A (150 kDa) 2.5pg/Mouse
- Purified BoNT/A (150 kDa) 5.0pg/Mouse
- ◆ BoNT/A 2.5pg/Mouse
- BoNT/A 5.0pg/Mouse

Figure. Survival curves of mice treated

Effects of purification on the bioavailability of botulinum neurotoxin type A
Article in Toxicology - August 2008
DOI: 10.1016/j.tox.2008.04.018

“Problem is PURITY”

Purity Test		
Product Name	: WZ21003 Inj. 100units	
Lot No.	: WZ21003	
Manufacturing Date	: Jan 18, 2011	
Expiry Date	: Jan 17, 2014	
제조번호	원액 순도시험 기준	시험결과
WT21003	1) SEC-HPLC: 클로스트리디움 보툴리눔 독소 A형 복합체는 총 시료 중 독소단백질 > 95.00 %	99.98%
	2) UV-Nucleic acid: OD260/278nm ≤ 0.6	0.50

ZEROTOX is botulinum toxin with **HIGH PURITY**

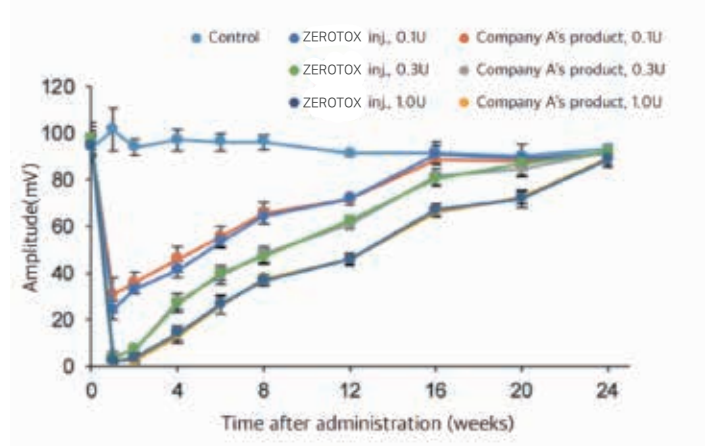
Using Size Exclusion Chromatography High performance liquid chromatography (SEC-HPLC), unglutated toxin complex solution was analyzed which in purity of over **99%**

EFFICACY

According to efficacy test in mouse,

ZEROTOX shows equivalent efficacy compared to Company A's produce.

Group	Test System	Route	Doses(U/kg)
Control	Mouse	IM	None
ZEROTOX	Mouse	IM	4
			12
Company A's product			40



Product Specifications

Classification	Medicine
Active Ingredient	Clostridium botulinum toxin type A
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) in adult patients
Dosage	100 units
Assay (Acuivity test)	87~115%
Storage	2~8°C
Expiration	36 months from date of manufacture

Indications

- 1 Forehead Transverse Lines
- 2 Globellar Frown Lines
- 3 Crow's Feet
- 4 Dorsum
- 5 Mouth Corner Lift
- 6 Masseter Hypertrophy
- 7 Marionette Lines
- 8 Platysmal Bands
- 9 Trapezius Muscle



ZEROTOX inj



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