



Vacuum-dried powder in a single-dose vial

# Red Tox<sup>®</sup>

Clostridium botulinum toxin type A

Clostridium botulinum toxin type A  
**Red Tox<sup>®</sup>**

**For Intramuscular Use**  
Dispense the enclosed Medication  
One single use vial per carton  
Discard Unused Portion

Dilute with preservative-free sterile 0.9% saline to 100 U/2.5 mL (4 U/0.1 mL)

<b>Vial</b>	Clostridium botulinum toxin type A	100 units
<b>carton</b>	Human Serum Albumin	0.5mg
	Sodium chloride	0.5mg

Vacuum-dried powder in a single-dose vial **100** units / **1** vial



Clostridium botulinum toxin type A  
**Red Tox<sup>®</sup> (10)**

**For Intramuscular Use**  
Dispense the enclosed Medication  
One single use vial per carton  
Discard Unused Portion

Dilute with preservative-free sterile 0.9% saline to 200 U/2.5 mL (4 U/0.1 mL)

<b>Vial</b>	Clostridium botulinum toxin type A	200 units
<b>carton</b>	Human Serum Albumin	1.0mg
	Sodium chloride	1.0mg

Vacuum-dried powder in a single-dose vial **200** units / **1** vial





Red Tox<sup>®</sup> is a Clostridium Botulinum Toxin Type A developed, produced, and distributed by Korean biotechnology company SEOYEON GROUP Co., Ltd. Red Tox<sup>®</sup> is effective for the temporary improvement of glabellar wrinkles.

## Product Specifications

Classification	Medicine	Medicine
Active Ingredient	Clostridium botulinum toxin type A	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	Clostridium botulinum toxin type A 200 units Human Serum Albumin 1.0 mg Sodium chloride 1.8 mg
Appearance	A white or light yellow lyophilisate contained in a colorless and transparent vial and is a transparent solution when dissolved in saline	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 (e.g., glabellar) in adult patients	Temporary improvement of moderate to severe wrinkle lines (e.g., glabellar) in adult patients
Mechanism	A temporary reduction in muscle activity for medical and aesthetic use	A temporary reduction in muscle activity for medical and aesthetic use

## Stability Test

Red Tox's outstanding consistency has been proven through testing, demonstrating its ability to maintain sustained quality over time.

Specification	Should be 80 % ~ 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 %

### Pre - Clinical Study

A comparative study with A's product has successfully demonstrated Red Tox®'s reliability and effectiveness.



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 Development	Rat	IM	0, 1, 3, 9	U/kg
	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, 1.5, 3, 6	U/kg

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

### Clinical Trial Timeline

Due to its high quality Red Tox® has become a licensed product and is now entering the third phase of its clinical trial.

	2020Y				2021Y				2022Y			
	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q
CLINICAL TRIAL PHASE I/II	→											
CLINICAL TRIAL PHASE III				→	→							
EXPORT LICENSE ACQUIRED	→											
MFDS APPROVAL												→



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