

Re N Tox: Precision Botulinum Toxin Type A

The Next Generation of Clinical
Aesthetics by PharmaResearch Bio

Highly purified. • Low diffusion. • Predictable outcomes.



The PharmaResearch Bio Pedigree



Heritage

Created by South Korea's leader in regenerative medicine (creators of Rejuran).



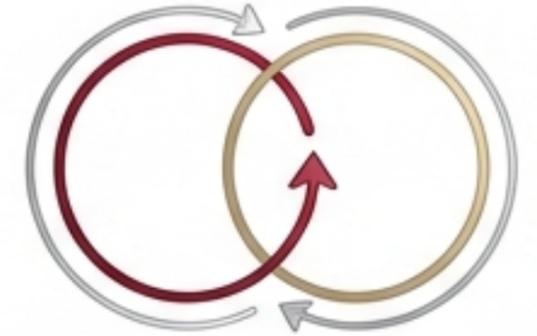
Manufacturing Excellence

Produced at the state-of-the-art, KGMP-certified Gangneung Science Park.



Global Capacity

Massive industrial scale equipped to produce up to 6 million vials annually to meet worldwide demand.



Philosophy

Engineered as part of a Total Aesthetic Solution —combining muscle relaxation with dermal regeneration.

Product Specifications & Formulation



Active Ingredient

Clostridium Botulinum Toxin Type A
(Strain ATCC 3502 equivalent / Hall Strain)

Presentation

Lyophilized white powder in a colorless,
transparent vial

Excipients (per 100U)

0.5 mg Human Serum Albumin (EP)
as a stabilizer, 0.9 mg Sodium Chloride
(EP) for isotonicity

Shelf Life

36 months (stored at 2–8°C)

Advanced Purification Protocol

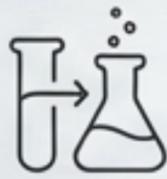
Stage 1



Fermentation

Anaerobic cultivation
of the Hall Strain

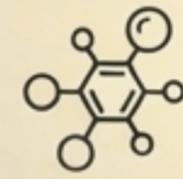
Stage 2



Acid Precipitation & Chromatography

Proprietary domestic patents
for targeted isolation

Stage 3



99.6% Pure Active Toxin

Unprecedented
purification standard



Proprietary Technology

Utilizes domestic patents for targeted
isolation of the active neurotoxin



99.6% Purity

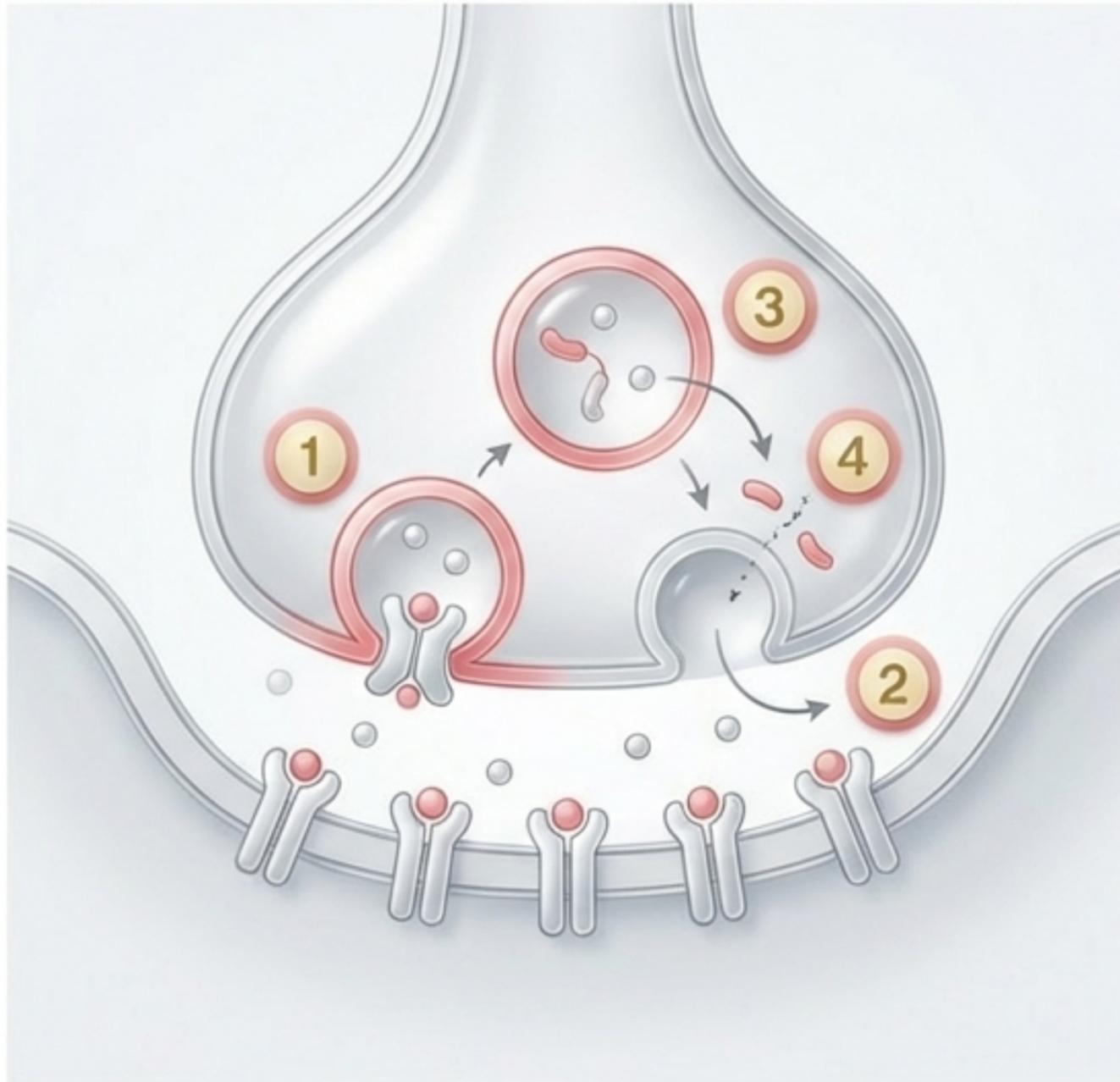
Unprecedented purification standard
minimizes the presence of non-essential
clostridial proteins



Clinical Value

Lowering the foreign protein load reduces
the risk of allergic reactions and safeguards
against secondary treatment failure

Molecular Architecture & Neuromuscular Blockade



Structure

927 kDa complex delivering the 150 kDa active core neurotoxin.

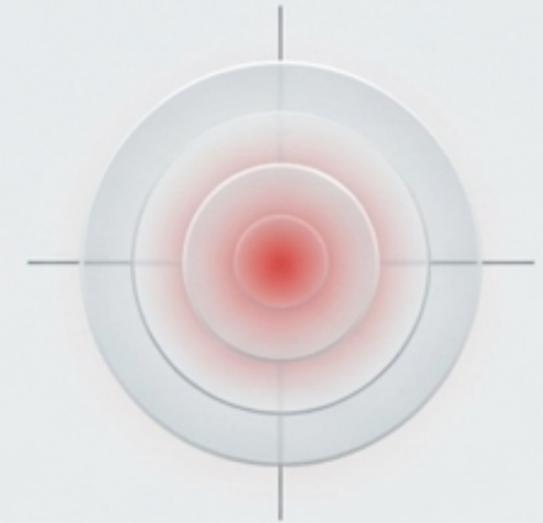
Mechanism

- 1. Binding:** Targets SV2 receptors on cholinergic nerve endings.
- 2. Binding:** Targets SV2 receptors.
- 2. Internalization:** Enters via endocytosis.
- 3. Translocation:** Light chain diffuses into the cytosol.
- 4. Cleavage:** Cleaves SNAP-25, disabling the SNARE complex and permanently blocking acetylcholine release.

Clinical Superiority: Low Diffusion Technology



High Diffusion



Low Diffusion
(Re N Tox)

The Advantage

The toxin remains concentrated strictly within the targeted muscle group.

Safety Profile

Significantly **reduces the risk** of adverse diffusion events, such as unintended ptosis (eyelid/eyebrow drooping) or facial asymmetry.

Application

Ideal for delicate, high-precision areas like the periorcular region and forehead.

Clinical Superiority: The 3D Effect & Rapid Onset



Rapid Onset

Initial visible smoothing within 3 to 5 days.
Maximum aesthetic results achieved at 2 weeks.

The 3D Effect

Low diffusion enables precise, multidimensional facial contouring with a reliable clinical duration of 3 to 6 months, extending up to 8 months in certain demographics.

Clinical Superiority: Minimized Immunogenicity

The Problem

Traditional toxins carry complexing proteins (NAPs) that act as antigens, leading to neutralizing antibodies and treatment resistance.

The Re N Tox Solution

99.6% purity means the patient's immune system is exposed to a drastically lower foreign protein load.

Clinical Implication

Essential for patients requiring frequent injections or high-dose treatments (e.g., masseter contouring, hyperhidrosis).

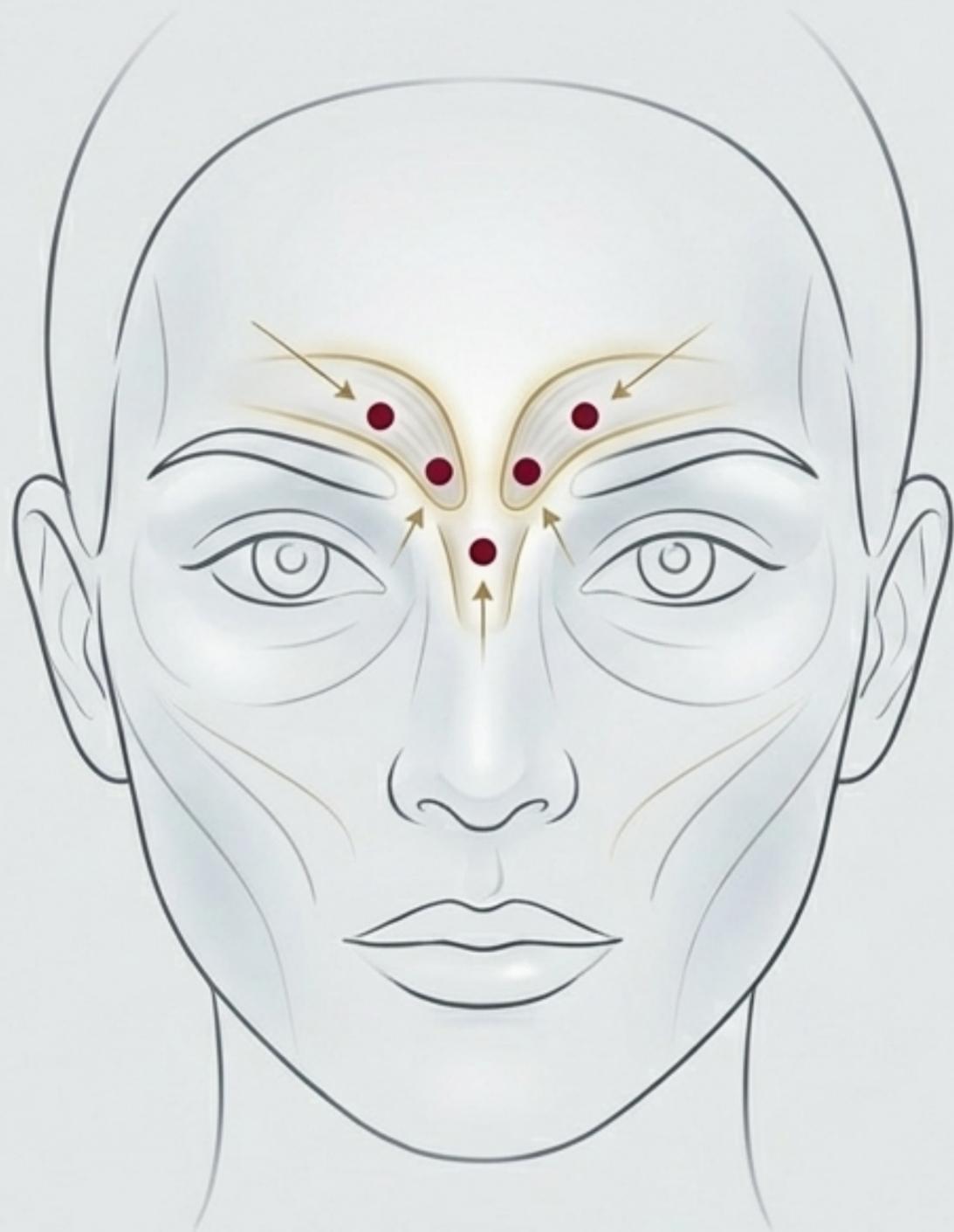
High Protein Load



Re N Tox Pure Formula



Primary Indication: Glabellar Lines



Target:

Moderate to severe glabellar (frown) lines in adults.

Standard Dosage:

20 Units total.

Distribution:

0.1 mL (4 Units) per site across 5 sites (2 in each corrugator, 1 in procerus).

Administration:

Intramuscular injection using a 30-gauge (30G) needle for maximum patient comfort.

Broader Aesthetic & Therapeutic Utility

Aesthetic Contouring



- Forehead lines
- Crow's feet
- Neck bands (Platysma)
- Masseteric hypertrophy (V-shaped jawline slimming)

Therapeutic Relief



- Hyperhidrosis (axillary, palmar)
- Bruxism (teeth grinding)
- Blepharospasm (involuntary eyelid spasms)

Preparation & Reconstitution Guide

Diluent: Preservative-free 0.9% Sodium Chloride (NaCl)

Reconstitution Table for 100U Vial

1.0 mL diluent	10.0 U per 0.1 mL dose
2.0 mL diluent	5.0 U per 0.1 mL dose
2.5 mL diluent	4.0 U per 0.1 mL dose (Standard)
4.0 mL diluent	2.5 U per 0.1 mL dose

Handling: Reconstituted solution is clear/colorless and should be refrigerated (2–8°C) and used within 24 hours.



Safety Profile & Contraindications

Common Localized Effects

Transient pain, redness, localized swelling, or mild ecchymosis (bruising) at the injection site.

Strict Contraindications

- Pre-existing neuromuscular disorders (Myasthenia Gravis, ALS).
- Known hypersensitivity to Botulinum Toxin or Human Serum Albumin.
- Active skin infection at the planned injection site.
- Pregnancy and lactation.

Competitive Market Positioning



The K-Toxin Advantage

Combines the robust 927 kDa complex structure (comparable to global benchmarks) with next-generation purification (99.6%).



Economic Viability

Large-scale domestic manufacturing allows for a premium, highly effective product at a significantly lower price point compared to Traditional Western Western Biologics.



Clinic ROI

The ideal choice for high-volume aesthetic practices seeking reliable, reproducible results without compromising margins.

Global Regulatory Milestones

2019

Initial Export Approval, gathering extensive real-world clinical data across Japan and Southeast Asia.

2024

Full South Korean MFDS Approval based on successful Phase 3 non-inferiority clinical trials.

2025

TFDA (Thailand) Approval, establishing a highly regulated bridgehead for comprehensive ASEAN market expansion.

Elevate Your Clinical Outcomes

Strategic Asset

Re N Tox delivers the precision, purity, and predictability required by top-tier aesthetic physicians.

Synergy

Designed to work seamlessly alongside modern regenerative therapies for a total anti-aging approach.



Procurement

Available for global wholesale and bulk clinic distribution via certified channels (Dermax / GoldenToad).



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