

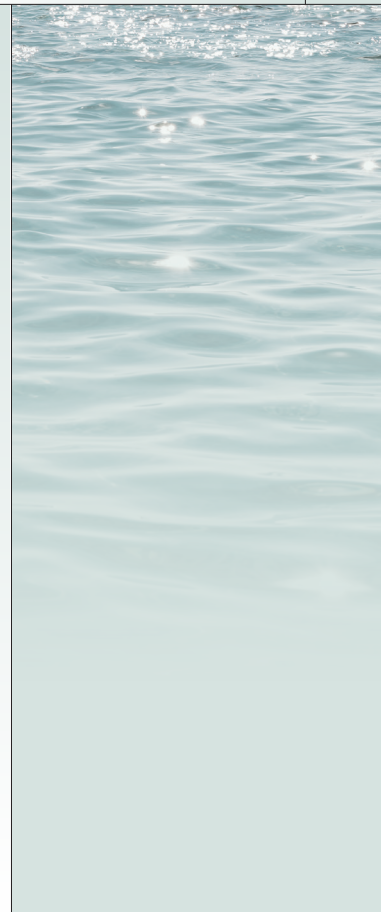
Small Lab Co., Ltd.

THE NEXT LEVEL OF SKIN CARE

We specialize in dissolving microneedles
used in TDDS technology and identify health and
beauty of humanity as a high priority.



www.smalllab.co.kr



CONTENTS

01. About Small Lab

Company History	03
Business Field	04
Business Strategy	
Innovative Cosmetic Lab	05
Our Clients	
Production Facility	06
Patent	07

02. Our Technology

Microneedle	08
-------------	----

03. Our Product

Patch	10
Roller / Stamp	11

“ Small Lab is different ”



Innovation Product

We respond sensitively to trends and strive to develop innovative products



Customer Satisfaction

We read customers' thoughts and suggest customized products.



World's Best Quality

We are proud of the highest quality by operating the ISO22176 based clean room factory

Company History

Jump-up

Expansion

Growth

Initiation

2020 -

2016 - 2019

2012 - 2015

2008 - 2011

Received an award for a \$7 million export
Received President’s Award 2022
Completion of Smart Factory system
Entered the pharmaceutical field

Obtained the patent of microneedle
- microneedle & microneedle patch
- Japan, China, USA and Europe
Patented microneedle with Botox
- Korea, USA, Japan, Hongkong, China, Europe
Cosmetic products mass production
- Eye patch, Smile Line patch, Spot patch
Completion of microneedle GMP facility
- EN ISO 22716:2007 GMP facility
- Cosmetic microneedle patch facility established
Development of New Cosmetic Products
- Mass production of dissolving microneedle roller (Home shopping)
- Developed dissolving microneedle mask
SMEs with technological innovation (Inno-Biz) appointed
- ELDEEN - Roller / Patch / Serum

Large area accommodation microneedle patch development
Commendation by the Minister of Trade, Industry and Energy
Investment of KRW 4.5 billion from Hugel

Establishment of Small Lab Co., Ltd (2008.08)
Venture company certification
Development of microneedle roller
Microneedle stamp development

We will differentiate our products from our competitors

Strengthening global ODM on large scale microneedles

Soluble microneedle roller products
Developed a Microneedle Mask

Strengthening product development & Synergy product development

Development of microneedle and synergy products
Development of microneedle for functional cosmetics
Development of microneedle for preventing hair loss

Strengthening our brand ELDEEN

Strengthening domestic and overseas distribution channels
Enhancement of a valued cosmeceutical cosmetic brands



▪ Company Overview

Small Lab strives to be a leader for beauty and medical use in microneedle technology

Dissolving Microneedle is a technology which loads active and main ingredients in the microneedles. It is produced by harmless bio-degradable materials to the human body which are dissolved completely in the applied area and delivered to the skin. When applied to the skin, it delivers the active ingredients to the deep layer of skin without any pain.

Small Lab Co., Ltd. holds the original technology for dissolving microneedles that uses biocompatible, biodegradable and high molecular weight substances. The microneedles manufactured using this technology goes through a sterilization process for it to be used as single-use products. This solving the problems of existing reusable items.

Innovative Cosmetic Lab

Small Lab's cosmetics R&D center provides the highest level of satisfaction to clients based on experiences.
Experience Small Lab's one-stop total solution service by customizing to client's needs.



Small Lab's cosmetics R&D center provides
a customized formula for our clients

- ✓ Customized formula
- ✓ Manufacture
- ✓ Sourcing eco-friendly package



Colloid /Urethane Patch

Able to produce desired shapes, sizes, customized printing, and apply key ingredients



Skincare

Lotion, Serum, Stick balm, and Cleanser



Hair Care

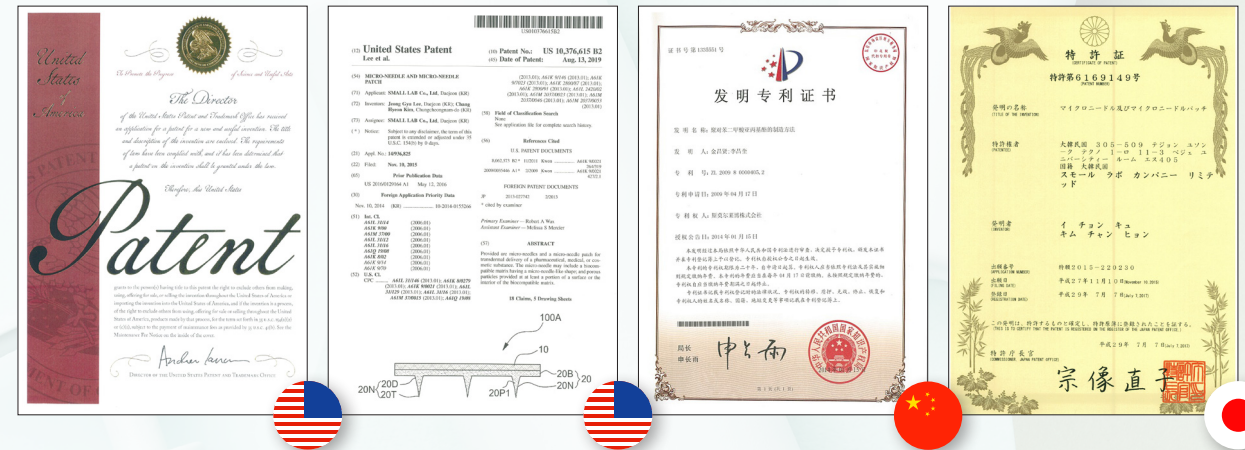
Shampoo, Conditioner, Hair toner, Hair essence etc



ISO 22716:2007 certified

Daejeon Plant

Smart Factory Completion in 2022
Production Capacity-600,000EA/Month



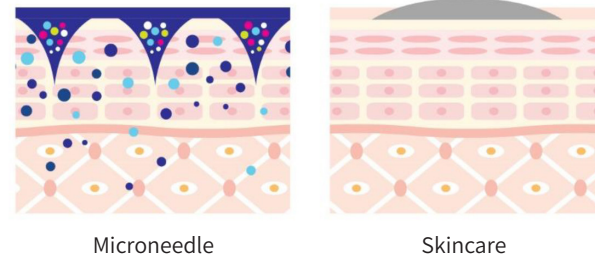
▪ Our Clients



▪ Dissolving Microneedle

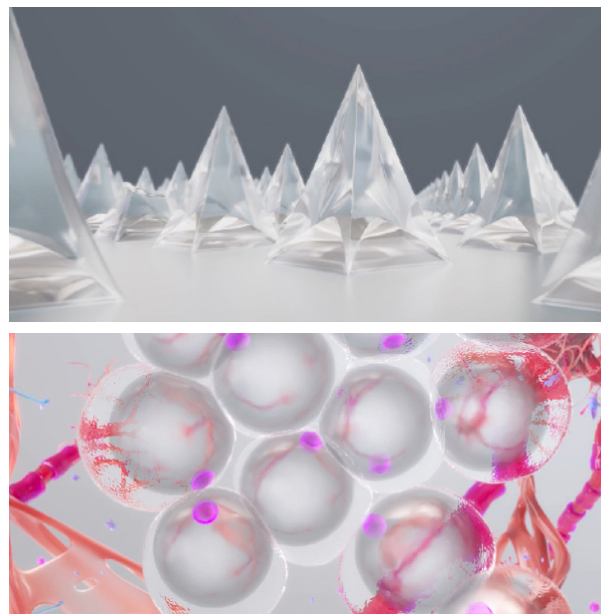
The absorption of active ingredients in applied cosmetics is less than 5%.

Applying cosmetics solves skin problems, but there are clear limitations.



Microneedle

Skincare



Do you want to solve your skin problem fast and efficiently?

Improve your skincare routine by using microneedle product. The microneedle delivers the active ingredient of skincare as well as the active ingredient of the microneedle, so you can experience the double effect.

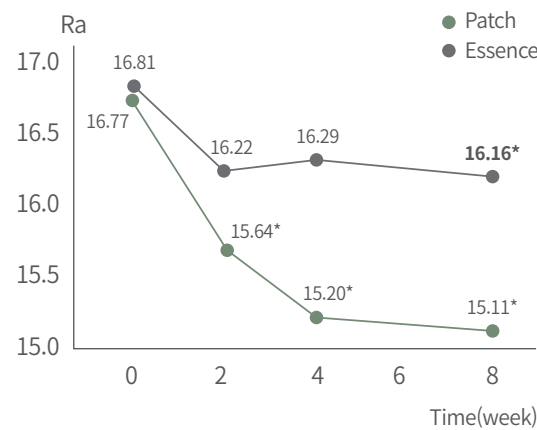
Based on Trans Dermal Drug Delivery System (TDDS), the microneedle creates a micro-channel in the stratum corneum of the skin and directly penetrates the active ingredient under the skin to give the best results faster.

Hyaluronic acid, the main ingredient of microneedle, is a component of our skin and provides vitality and elasticity to the skin. So it is safe to apply to the skin and widely known as an effective ingredient, as well as a suitable ingredient for microneedles.

▪ Clinical result

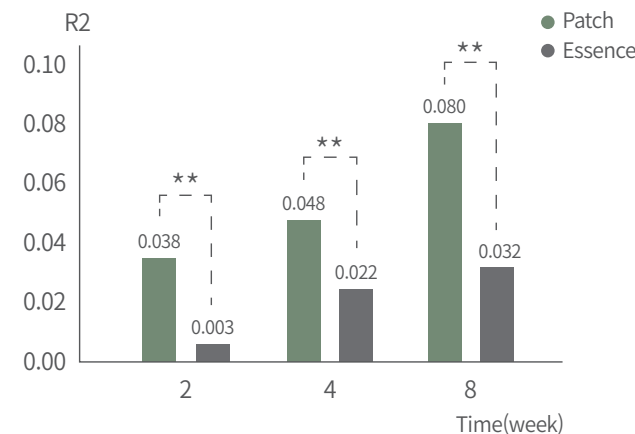
Wrinkle

★: p<0.05 by repeated measures ANOVA, posthoc Bonferroni correction



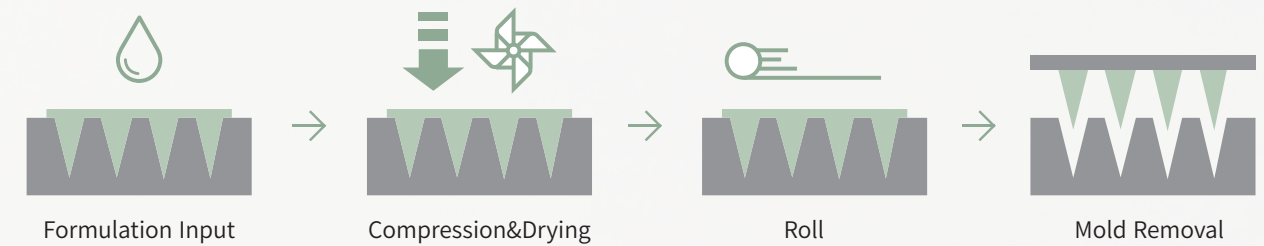
Elasticity Change

★ ★: p<0.05 by Independentsamples t-test



A clinical test was conducted for two months using a functional cosmetic and microneedles both having anti-wrinkle effect. The result showed the group that used microneedle patch experienced 8 times higher anti-wrinkle effect, and 12 times more resilience, than the group that used anti-wrinkle essence.

Small Lab's **LSCR (Large Scale Continues Roll)** large area technology is the only Small Lab's technology in the world protected by a patent.



- Uniform and excellent needle molding is possible
- The number of needles in the same area is higher which means it increases the transfer efficiency
- The needle tip is narrow, so there is little pain
- We provide the best service to our customers with fast production

▪ Customized product development



Forehead
T zone
Eye
Smile Line
Neck

▪ Small Lab's Core Technology

We can manufacture the microneedle for the eyelids and nasolabial fold as well as large-scaled products for facial mask, neck, T-zone patch etc.

▪ Intensive Skin Care – Patch

Effect	Design	Recommended active ingredient	Needle Quantity (approx.)
Anti-Wrinkle		· Triple Peptide solution · Madecassoside · Retinol · Adenosine · EGF	800/1EA
			1,300/1EA
Acne/Blemish		· Salicylic acid · Succinic acid · Madecassoside · Teatree oil	150/1EA
			100/1EA
Dark Spot		· Niacinamide · Tranexamic acid · Vitamin C · Arbutin	150/1EA
			100/1EA

How to use

1. After cleansing, leave your skin dry.
2. Open the pouch with dry hands and remove the patch.
3. Peel off the protective film. Be careful not to touch the microneedles.
4. Apply the central part of the patch at a right angle to the specific area and lightly press it for about 2 to 3 minutes.

※ Recommended leaving in place for more than 2 hours



Others Possible to develop various products such as hair loss, pain relief, and lip plumping patch for the cosmeceutical field. The ingredients will be customized based on customers needs



Roller

Microneedle roller is a product that is evaluated as a finished product of a large area process, which is also a unique strength of Small Lab. The double effect premium therapy product that delivers the active ingredients of serum and essence goes to the depth of the skin offering the best results.

Needle Quantity : 3,600

Effects

Used together with a skincare products such as serums to help the absorption of an active ingredients in cosmetics

Stamp

The microneedle stamp is a new beauty device that enables intensive care of a specific areas desired by the customer. This is a new product of Small Lab which combines a durable microneedle with a luxurious handle.

Needle Quantity : 2,000



How to use

Roller & Stamp

1. Begin with a cleaned and dry skin
2. Take a roller out and connect it to the roller handle. Massage the entire face and neck for 5~10 minutes.
3. Apply the serum.
4. Continue using the roller and massage over your face to penetrate all ingredients into your face.





Worlds Best Microneedle
SmallLab

www.smalllab.co.kr 243-15, Technojungang-ro, Yuseong-gu, Daejeon, Korea
+82-42-716-7007 small.info@smalllab.co.kr