Caregen Co., Ltd.
Cosmeceuticals with
Growth Factors
and their Mimicking Peptides
Overview of Caregen

CAREGEN Co., Ltd. was established in August 2001, a biotech company, is committed to the R&D of growth factors, which are produced by the transformed bacteria synthetic genes. We have been in alliance with world-class research groups and companies in Korea and Overseas. We have established environments ranging from small-scale state-of-art laboratory to large commercial facilities. Our growth factors are useful in the protein field for cosmetics, therapeutics, agricultural, environmental and fishery applications for human welfare. We have developed and marketed growth factors for anti-wrinkle and anti-aging sector since 2002.

Human skin is a living organ which performs dynamic activities such as growth, repair and maintenance. Even though our skin requires growth factors as key modulators of skin cell metabolism, their expression level decreases with aging process which is resulted in slow cell renewal and defected skin defense system. If exogenous growth factors are put into the aged skin, those factors surely improve skin elasticity and plasticity via accelerated rejuvenating process.

Cosmetic Business of Caregen

Caregen has developed dozens of different types of peptides, cytokines, growth factors, hormones, neurotransmitters, immunomodulators, such as EGF, IGF-1, bFGF, aFGF, VEGF, TRX, IL-10 and so on. Growth factor mimicking peptides, such as Rejuline, Prohairin-β4, CG-TGP2, CG-EDP3, CG-IDP5 and CG-IDP2, have almost full activities compared to their intact growth factors. The advantages of our peptides as a cosmetic ingredients are: 1) Prolonged action which is delivered by high stability in formulation resulted from modification of primary sequence 2) Trans-dermal delivery by nano-capsulation 3) High purity.
Our mission at Caregen is to improve skin health. Dedicated to this purpose, we make one simple promise: provide quality products backed by science.

Our dedication to developing advanced skin care backed by science has earned us a strong reputation with the medical community worldwide. Caregen provides complete skin care solutions through dermatologists, plastic surgeons, medi-spas, and other skin care professionals in the United States and in over 35 countries worldwide. These experts trust Caregen to promote skin health, not trends.

**History**

- **2001**
  - Established Caregen

- **2002**
  - Founded R&D center and relocation of head office (current address)
  - Research of Growth Factor Mimicking Peptide begins

- **2003**
  - Certification of NT Venture Biotech Company acquired

- **2004**
  - 11 Growth Factors registered on CTFA as a cosmetic ingredient
  - Developed Rejuline & Prohairin peptides

- **2005**
  - Certification of NT Venture Biotech Company acquired
  - 3 Growth Factors and 6 Peptides registered on CTFA as a cosmetic ingredient
  - Acquired ISO 9001 & 2000

- **2006**
  - 4 Growth Factors registered on CTFA as a cosmetic ingredient
  - 9 Peptides registered on CTFA as a cosmetic ingredient

- **2007**
  - 3 Peptides registered on CTFA as a cosmetic ingredient
  - Distribution of CG-TGP2 Peptide to Dermalogica
  - Exclusive ingredient agreement with La Prairie

- **2010**
  - 3 Growth Factors and 6 Peptides registered on CTFA as a cosmetic ingredient
  - Distribution of CG-TGP2 Peptide to Dermalogica

- **2011**
  - Acquired ISO 9001 & 2000
  - 9 Peptides registered on CTFA as a cosmetic ingredient
  - Acquired ISO 9001 & 2000

- **2012**
  - Exclusive ingredient agreement with La Prairie

**Mission**

Our mission at Caregen is to improve skin health. Dedicated to this purpose, we make one simple promise: provide quality products backed by science.

Our dedication to developing advanced skin care backed by science has earned us a strong reputation with the medical community worldwide. Caregen provides complete skin care solutions through dermatologists, plastic surgeons, medi-spas, and other skin care professionals in the United States and in over 35 countries worldwide. These experts trust Caregen to promote skin health, not trends.
Product Line of Caregen

Skin Care
- Personal care
- Other Circuits

Dermatology Hair Care

Medi-Spa

Skin Care Line and Step

1st Step
Cleansing Care
- Foaming Cleanser

2nd Step
After Cleansing Care
- Skin Solution (Toner)
- Vitalizing Solution
- Skin Delight Solution
- Mask Pack
- Skin Resurfacing Cream (Peeling)

3rd Step
Nutrition and special Care
- Wrinkle Skinceutical Serum
- Whitening Serum
- Lighten & Brighten Serum
- Vitalizing Serum
- Skin Delight Spot Corrector
- DeAkni
- Post Laser Cream

4th Step
Nutrition and moisturizing Special Care
- Sun Block Cream
- Anti-Wrinkle Cream
- Hydro Balance Fluid
- Eye Cream
- Vitalizing Eye Tension Gel
- Vitalizing Cream
- Skin Delight Emulsion
- Skin Delight Cream
- Iontophoresis Kit
- Stem Crum
- Mesotherapy
- Needle Free Mesotherapy
Overview

Contact Us

Direction for Use

Professional Care

Stem Cell Product Line
Mesotherapy
Conductive Gel

Home Professional Care

Iontophoresis Electro Kit
Post Laser Cream
DeAkni

Skin Trouble Care

Cosmeceuticals

Anti-aging Care Line with Peptides
Anti-aging Care Line with Growth Factors and Peptides
Hydrating Care Line with Growth Factors and Peptides
Anti-pigmentation Care Line with Peptides
Skin Care Line
Hair Care Line
Eyelash Enhancer

Caregen Technology

Contents
Caregen is a global leader of research and manufacturing of growth factors, therapeutic peptides, and some functional peptides in cosmeceuticals. Our service, based on wide experience for years in innovative active ingredients, can meet all of your requirements which are intended to find something distinguished raw materials.

The importance of cytokines and growth factors in the regulation of gene expression and cellular metabolism is well established in a field of skin biology.

Summarized functions of growth factors and mimicking peptides.
- Removing damaged skin cells.
- Stimulating skin and hair follicle proliferation.
- Repairing and preventing wrinkle formation and minimizing scar formation.
- Soothing effect on acne and pimples.
- Reducing and removing cellulites.
- Acting as anti-microb agents.
- Preventing hair loss.
- Vitalizing skin and hair cells.
Nano-capsulated Growth Factors have an improved penetration ratio in the skin. In addition, the molecules are protected from endogenous proteases due to Nano-capsulation.

Skin absorption of Nano-capsulation
- Intercellular interval of skin is 70-180nm
- Molecules are tiny enough to deeply penetrate
- Transport cosmetic components into dermal skin tissue

Characteristics of Nano-capsulation
- Multi-layered
- Therapeutic components in each globe layer
- Continuous release effect
### Raw Materials

- Ingredients Registered on CTFA (Cosmetic Toiletry, Fragrance Association)

#### - Recombinant Proteins

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<th>INCI Name</th>
<th>Application</th>
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18 recombinant proteins certificated

* CG-IL-10, CG-IL-4 : Anti-inflammation
- Growth Factor Mimicking Peptides

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18 mimicking Peptides certificated
Dermaheal anti-aging care line is designed to provide the best defense against skin’s natural aging process to maintain the youngest-looking skin possible.

Flaming youth and energy:
- Revitalize your skin and reduce the signs of aging
- Significantly diminish the appearance of fine lines and wrinkles
- Smooth rough skin texture for ultimate skin care
- Clear darkening under the eyes
- Stimulate the renewal of skin cells
- Restore elasticity to Sagging skin
Anti-aging Care Line with Peptides

**+ Dermaheal Vitalizing Solution 120g**
Removes dirt, oil, and make-up without over drying and provides the skin with a fresh and clean feeling. Restores the skin to its proper pH level.

**Direction for Use:** Soak a cotton pad with the solution and gently wipe on the face and neck. Wait briefly for it to be absorbed, then apply the Vitalizing Serum.

**Main Ingredients:** Copper Tripeptide-1, Oligopeptide-24, Oligopeptide-34, Ginkgo Biloba leaf Extract, Glycyrrhiza Uralensis Extract

**+ Dermaheal Vitalizing Serum 40g**
Helps the skin to maintain its optimum moisture balance and keeps the skin radiant with supplying nourishment. Reduces and prevents wrinkles by generating new skin cells.

**Direction for Use:** Apply a small amount of the serum over the face and neck. Massage it with fingers over your skin. Let it penetrate and then proceed with the Vitalizing Cream. Use it twice daily in the morning and night.

**Main Ingredients:** Copper Tripeptide-1, Acetyl Decapeptide-3, Acetyl Hexapeptide-8, Palmitoyl Pentapeptide-3, Oligopeptide-20, Oligopeptide-24, Camellia Sinensis leaf Extract, Glycyrrhiza Uralensis Extract

**+ Dermaheal Vitalizing Eye Tension Gel 15g**
Helps slow down the visible signs of aging at the delicate region around the eyes. Reduces wrinkles around the eyes, visibly reduces crow’s feet and improves skin’s elasticity. Maintains younger and healthier looking skin around the eyes.

**Direction for Use:** Apply small dots around the eye area and gently massage until thoroughly absorbed.

**Main Ingredients:** Copper Tripeptide-1, Acetyl Decapeptide-3, Acetyl Hexapeptide-8, Palmitoyl Pentapeptide-3, Oligopeptide-20, Oligopeptide-24, Camellia Sinensis leaf Extract, Glycyrrhiza Uralensis Extract

**+ Dermaheal Vitalizing Cream 30g**
Turns the skin’s visibility and re-energizes the texture. Reduces and prevent wrinkles by generating new skin cells and increasing skin elasticity through upregulation of collagen, elastin, fibronectin and hyaluronic acid.

**Direction for Use:** Apply a small amount of the cream onto the face and neck after washing the face. Massage from inside towards the outside according to the skin texture.

**Main Ingredients:** Copper Tripeptide-1, Acetyl Decapeptide-3, Acetyl Hexapeptide-8, Palmitoyl Pentapeptide-3, Oligopeptide-20, Oligopeptide-24, Camellia Sinensis leaf Extract, Glycyrrhiza Uralensis Extract
Anti-aging Care Line with Growth Factors and Peptides

+ **Dermaheal Cosmeceutical Skin Solution 120ml**
Removes dirt, oil and make-up without over drying and provides the skin with a fresh and clean feeling. Restores the skin to its proper pH level.

**Direction for Use:** Soak a cotton pad with the solution and gently wipe on the face and neck. Wait briefly for it to be absorbed, then apply the Anti-wrinkle Serum.

**Main Ingredients:** Thioredoxin (TRX), Proteases, Multi-vitamins and Amino acids

+ **Dermaheal Cosmeceutical Anti-wrinkle Serum 40ml**
Helps the skin to maintain its optimum moisture balance and keeps the skin radiant with supplying nourishment. Reduces and prevents wrinkles by generating new skin cells

**Direction for Use:** Apply a small amount of the serum over the face and neck. Massage with fingers over your skin. Let it penetrate and then proceed with the Anti-wrinkle Cream. Use it twice daily in the morning and night.

**Main Ingredients:** Epidermal Growth Factor (EGF), Insulin-like Growth Factor-1 (IGF-1) basic Fibroblast Growth Factor (bFGF), Thioredoxin (TRX), acidic Fibroblast Growth Factor (aFGF), Copper Tripeptide-1, Multi-vitamins, Amino acids and Minerals

+ **Dermaheal Cosmeceutical Anti-wrinkle Cream 40ml**
Turns the skin’s visibility and re-energizes the texture. Reduces and prevent wrinkles by generating new skin cells and increasing skin elasticity through up-regulation of collagen, elastin, fibronectin and hyaluronic acid.

**Direction for Use:** Apply a small amount of the cream onto face and neck after washing the face. Massage from inside towards the outside according to the skin texture.

**Main Ingredients:** Epidermal Growth Factor (EGF), Insulin-like Growth Factor-1 (IGF-1) basic Fibroblast Growth Factor (bFGF), Thioredoxin (TRX), acidic Fibroblast Growth Factor (aFGF), Copper Tripeptide-1, Multi-vitamins, Amino acids and Minerals
Anti-aging Care Line with Growth Factors and Peptides

Wrinkle Skinceutical Serum contains high concentrated Growth Factors and Peptides, which improves the appearance of wrinkles by increasing the level of its own collagen, elastin and other extracellular matrix (ECM).

+ Dermaheal Wrinkle Skinceutical Serum  5mlx4ea/set

**Direction for Use:** Apply a small amount of this serum after washing your face with the Dermaheal Cleanser and Skin Solution. Use it twice daily in the morning and night.

**Main Ingredients:** Epidermal Growth Factor (EGF), Insulin-like Growth Factor-1 (IGF-1), basic Fibroblast Growth Factor (bFGF), Thioredoxin (TRX), acidic Fibroblast Growth Factor (aFGF), Copper Tripeptide-1, Palmitoyl Pentapeptide-3, Multi-vitamins, Amino acids and Minerals

+ Dermaheal Cosmeceutical Eye Cream  15ml

Helps slow down the visible signs of aging at the delicate region around eyes. Reduces wrinkles around eyes, helps to reduce crow’s feet and improves skin’s elasticity. Maintains younger and healthier looking skin around the eyes.

**Direction for Use:** Apply small dots around the eye area and gently massage until thoroughly absorbed.

**Main Ingredients:** Epidermal Growth Factor (EGF), Insulin-like Growth Factor-1 (IGF-1), basic Fibroblast Growth Factor (bFGF), Thioredoxin (TRX), acidic Fibroblast Growth Factor (aFGF), Copper Tripeptide-1, Multi-vitamins, Amino acids and Minerals.
Growth Factors for Anti-aging Care

Caregen’s Anti-aging product line contains high concentration of Growth Factors to prevent aging.

**Growth Factors stimulate the skin fibroblast cell proliferation**

<table>
<thead>
<tr>
<th>Control</th>
<th>EGF 1 ppm</th>
<th>bFGF 1 ppm</th>
<th>EGF 1 ppm + bFGF 1 ppm</th>
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</thead>
</table>

Increase in cell proliferation was observed in skin fibroblast cell line by using 1 ppm of EGF and 1 ppm of bFGF. In addition, each of 1 ppm of EGF and bFGF complex showed more additive effect than any other ingredients in cell proliferation.

**Growth Factors increase ECM (Extracellular Matrix)**

EGF, IGF-1 and Thymosin-β4 showed positive regulation in elastin and fibronectin expression in the skin fibroblast cell line.

Upon investigation of the skin tissue through histology of aged female, the dermis section of collagen has been severely damaged. By inducing bFGF into this skin tissue, dermis section showed more collagen extensions.

**Clinical study for Growth Factor Anti-aging Cream**

41 yrs Female

Fine line wrinkles have decreased and elasticity has increased after using Growth Factor Anti-aging Cream for 8 weeks in the clinical test.

**Efficacy test report** Skin elasticity effect

Parameter Value (R² Value)

- 0.395
- 0.393
- 0.391
- 0.389
- 0.387
- 0.385

0 Week | 8 Weeks
Peptides for Anti-aging

(Growth Factor Mimicking Peptides for Anti-aging)

Excellent stability and penetration of Growth Factor Mimicking Peptides shows formulation friendly in Anti-aging and Anti-wrinkle effect.

**Peptides stimulate skin keratinocyte proliferation**

Increase of cell proliferation was observed in skin keratinocyte cell line by IDP5 in a concentration-dependent manner.

**Cell migration by peptide**

Rejuline induced the migration of skin fibroblast cell line with 5 ppm.

**EGF autocrine effect of EDP3 Peptide**

EDP3 peptide containing media showed 10 times higher than the control media. This explains using only Peptide shows the same EGF effect on skin.

**ECM expression by Peptides**

EDP3, IDP2 and Prohairin-β4 showed positive regulation in elastin and fibronectin, laminin, HA expression in the skin fibroblast cell line.

**Clinical study for Anti-aging Peptide Cream**

40 yrs Female

Fine line wrinkles has decreased after using Anti-aging Peptide Cream for 8 weeks in the clinical test.

**Efficacy test report** Skin elasticity effect

Relative rate (%)

<table>
<thead>
<tr>
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<th>8 Weeks</th>
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<tbody>
<tr>
<td>Control</td>
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<td></td>
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<tr>
<td>Skin Fibroblast</td>
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<tr>
<td>Skin Keratinocyte</td>
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**Control** | **IDP5 1 ppm** | **IDP5 5 ppm**
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<thead>
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<tr>
<td><strong>Skin Keratinocyte</strong></td>
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<td>400 ppm</td>
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</table>
Environmental assault, air travel, climate changes, hormonal shifts - all combine to make skin dryness a major or constant by-product of modern living. This hydrating care line are created to be your skin’s long time defense against dryness. Drenching your skin with life-affirming hydration, guarding it against free radicals and environmental damage, these state-of-the-art formulations help smooth away fine lines and restore resilience, firmness and radiance as your skin remembers how to hold and maximize moisture.

+ Dermaheal Hydro Balance Fluid 50g

See skin glow with a fresh, flawless radiance. Now you can banish those first signs of aging—uneven skin tone, dullness and fine dry lines. Dermaheal Hydro Balance Fluid for Dry Skin comforts and cushions with soothing emollients and a luscious texture. Skin is guaranteed to glow with a beautiful, healthy vitality.

Direction for Use:
Apply a small amount of the fluid over the face and neck. Massage it with fingers over your skin. Let it penetrate and then proceed with the Anti-Wrinkle Cream or Skin Delight Cream. Use it twice daily in the morning and night.

Main Ingredients:
Copper Tripeptide-1, Acetyl Decapeptide-3, Acetyl Hexapeptide-8, Palmitoyl Pentapeptide-3, Oligopeptide-20, Oligopeptide-24, Camellia Sinensis leaf Extract, Glycyrrhiza Uralensis Extract.
Peptides for Anti-pigmentation and Skin Brightening

After years of research in Growth Factor Mimicking Peptides, we have discovered many peptide candidates for Anti-pigmentation and Anti-inflammation.

CG-TGP2 inhibits melanin synthesis

CG-TGP2 significantly inhibits melanin synthesis on B16F10 melanocyte cell line in a concentration-dependent manner.

CG-TGP2 inhibits expression of melanogenesis marker

The effect of CG-TGP2 on melanogenesis: CG-TGP2 decreased MITF, tyrosinase, TRP1 and TRP2 protein production. CG-TGP2 induced MITF and TRP1, TRP2 reductions may be mediated by the ERK signaling pathway.

CG-TGP2 inhibits skin melanoma

CG-TGP2 significantly inhibits melanin synthesis and metastasis of malignance melanoma.

Clinical report for Anti-pigmentation Cream (CG-TGP2 and CG-ASP)

Decreased the aged pigmentation and spot after using Anti-pigmentation Cream for 8 weeks in this clinical test.
Anti-pigmentation Care Line with Peptides

† Dermaheal Skin Delight Solution 120g

A soothing new sensation for normal / combination skin. This Skin Delight Solution conditions and rebalances skin, leaving it feeling fresh and smooth. Dermaheal Skin Delight Solution provides the perfect balance and brightening for your skin, with Skin Delight care line. By gently managing oily zones while soothing your face, they leave skin feeling renewed and comfortable.

Direction for Use: After cleansing, sweep on with a cotton pad. Use it twice daily in the morning and night.

Main Ingredients: Copper Tripeptide-1, Oligopeptide-34, Ginkgo Biloba leaf Extract, Glycyrrhiza Uralensis Extract

† Dermaheal Skin Delight Emulsion 40g

This ultra-light fluid emulsion gently soothes and moisturizes the skin, leaving it soft, smooth and radiant. Dermaheal Skin Delight Emulsion features a unique technology to provide brightening, immediate and continuous moisturization and soothe sensitive skin.

Direction for Use: After Dermaheal Skin Delight Solution, sweep on with a cotton pad. Use it twice daily in the morning and night.

Main Ingredients: Copper Tripeptide-1, Pentapeptide-13, Oligopeptide-34, Ginkgo Biloba leaf Extract, Oryza Sativa hull Extract, Camellia Sinensis leaf Extract, Glycyrrhiza Uralensis Extract

† Dermaheal Skin Delight Spot Corrector 15g

This complex effectively prevents pigmentation spots from target area while it fades spots already visible. Skin becomes beautifully retextured with luminously even skin tone.

Direction for Use: Use morning and night. Apply directly to the pigmentation areas.

Main Ingredients: Copper Tripeptide-1, Pentapeptide-13, Oligopeptide-34, Ginkgo Biloba leaf Extract, Oryza Sativa hull Extract, Camellia Sinensis leaf Extract, Glycyrrhiza Uralensis Extract
Anti-pigmentation Care Line with Peptides

+ **Dermaheal Skin Delight Cream 30g**

This Skin Delight Cream works on your skin all day to treat dry dull skin with nourishing moisture and a lasting infusion of brightening sources. Awake to Skin Delight Cream with a new look of bright vitality and health.

**Direction for Use:** Every morning and night. Take up a small amount on your palm and smooth over entire face with your fingertips.

**Main Ingredients:** Copper Tripeptide-1, Pentapeptide-13, Oligopeptide-34, Ginkgo Biloba leaf Extract, Oryza Sativa hull Extract, Camellia Sinensis leaf Extract, Glycyrrhiza Uralensis Extract

+ **Dermaheal Lighten and Brighten Serum 40ml**

Contains active ingredients to remove the hyper-pigmentation areas such as age spots in the skin. It also helps to improve the elasticity of the skin by increasing the production of the collagen and elastin levels in the skin. It reduces the blotchiness in the skin and makes it feels and looks smoother and younger.

**Direction for Use:** Apply a small amount of this serum after washing your face with the cleanser and toner. Massage from inside the towards outside according to the skin texture. Use it twice daily in the morning and evening.

**Main Ingredients:** Thioredoxin (TRX), Ascorbic Acid, Coenzyme Q10, Licorice Extract, Oryza Sativa hull Extract, Camellia Sinensis leaf Extract, Copper Tripeptide-1
Skin Care Line
- Cleansing and Peeling

Facial Cleansing
Removes make-up without drying the skin and cleanses skin from dirt and cell debris. Leaves the skin soft and clean with no residue.
Promotes a makeup look that is both vibrant and natural.
Minimizes the visibility of pores and softens imperfections for a flawless appearance.

+ Dermaheal Foaming Cleanser 150ml
Direction for Use:
Rinse your face with lukewarm water.
Squeeze a small amount of cleanser into palm of your hand and work into a rich lather. Massage on face with gentle circular motions.
Rinse thoroughly.
Use every morning and evening.

Main Ingredients:
Thioredoxin (TRX), Proteases,
Multi-vitamins and Amino acids

Facial Peeling and Pore Care
Removes cell debris and tightens skin pore.
Minimizes the visibility of pores and softens imperfections for a flawless appearance.

+ Dermaheal Skin Resurfacing Cream 70g
Direction for Use:
Rinse your face with lukewarm water.
Squeeze a small amount of cream into palm of your hand and gently massage on face.
Leave the cream on the skin for overnight.
Use once or twice every week.

Main Ingredients:
Glycolic Acid, Proteases,
Multi-vitamins and Amino acids
Skin Care Line
- Sun Protection and Mask Pack

+ Dermaheal Cosmeceutical Sun Block Cream  70ml

Prevents premature signs of aging caused by UV exposure.
Provides excellent hydrating benefits to fight dryness and maintains the skin’s optimal moisture and softness.

Direction for Use: Apply 20-30 minutes before sun exposure.

Main Ingredients: Epidermal Growth Factor (EGF), Copper Tripeptide-1, Titanium Oxide, Zinc Oxide

+ Dermaheal Cosmeceutical Mask Pack  22g

Strong antioxidant reduces free radicals and inhibits the aging of skin cells.
Keeps skin radiant and velvety-soft by actively supplying nourishment.
Increases skin’s own collagen and elastin levels and reduces blotchiness.

Direction for Use: After washing the face, make the skin clean with the Dermaheal Skin Solution and attach the mask onto the face. Strip off the mask after 20-30 minutes.

Main Ingredients: Epidermal Growth Factor (EGF), Insulin-like Growth Factor-1 (IGF-1), basic Fibroblast Growth Factor (bFGF), Thioredoxin (TRX), Copper Tripeptide-1

34 yrs Female

Before

After

Pore openings are improved using mask pack for 3 weeks.
Skin texture is also improved.
Hair Care Line
- Anti-hair Loss, Scalp Care, Hair Follicle Care

**Dermaheal Hair Nourishing Solution 150ml**
Helps blood circulation in the scalp and revitalizes hair follicles.
Delivery of growth factors & copper peptide to the base of the follicle, which stimulates hair follicles to produce healthier hair shaft.
Moisturizes, nourishes, and improves the hair and scalp condition.
Normalizes hair growth cycle.

**Direction for Use:** Condition and treat your hair and head scalp daily by spraying. Gently massage scalp with fingertips to distribute and work in the product. Do not rinse off. Use it twice daily in the morning and night.

**Main Ingredients:** Insulin-like Growth Factor-1 (IGF-1), basic Fibroblast Growth Factor (bFGF), Vascular Endothelial Growth Factor (VEGF), Copper Tripeptide-1, Multi-vitamins and Amino acids

**Dermaheal Hair Conditioning Shampoo 250ml**
Creates healthy environment for anti-hair loss. Helps boost volume and makes it shine.

**Direction for Use:** Work a small amount of shampoo through wet hair, then massage gently, touching the scalp to help stimulation. Start with the roots of the hair and work through to the end and rinse thoroughly.

**Main Ingredients:** Copper Tripeptide-1, Multi-vitamins and Amino acids

**Dermaheal Hair Concentrating Serum 50ml**
Creates a healthy environment, stops hair loss, scalp care, hair follicle care

**Direction for Use:** Work a small amount of serum, gently massage scalp with fingertips to distribute and work in the product. Do not rinse off. Use it twice daily in the morning and night.

**Main Ingredients:** Insulin-like Growth Factor-1 (IGF-1), basic Fibroblast Growth Factor (bFGF), Vascular Endothelial Growth Factor (VEGF), Copper Tripeptide-1, Multi-vitamins and Amino acids
Eyelash Enhancer

+ Dermaheal Eyelash Enhancer 5g

Eyelash enhancer is a unique eyelash conditioner that will help you achieve the beautiful look of longer, thicker and fuller eyelash.

**Direction for Use:** Twice a day, apply a thin line to the base of your upper eyelashes, as though you were applying eyeliner.

**Main Ingredients:** basic Fibroblast Growth Factor (bFGF), acidic Fibroblast Growth Factor (aFGF), Multi-vitamins and Amino acids

Liquid eyelash enhancer is simply applied twice a day. Within three to ten weeks, your own natural eyelash will look Longer, Thicker, Fuller and BEAUTIFUL! No matter how brittle, short, fragile, thin, or sparse your eyelashes are, it may help you achieve long, beautiful, healthy looking eyelashes.

Type 1

1. Step

2. Step

3. Step

Type 2

1. Step

2. Step

3. Step
Skin Trouble Care  
– Acne Therapy

**Dermaheal DeAkni 10g**
Helps calm skin trouble (acne) area quickly.

**Anti-acne Cream**
DeAkni for calm skin on the targeted area.

Anti-acne cream, DeAkni, to be used on the targeted area. It calms trouble area quickly as the followed system.

**Acne treating system : 3 step system**
- 1st Anti-bacterial phase (Inhibitor)
- 2nd Anti-inflammatory phase (Inhibitor)
- 3rd Repair remodeling phase (Activator)

Anti-acne complex specific for plural bacteria has useful effects for the prevention of bacterial disease. Skin texture is remodeled through epidermal cell proliferation, collagen and elastin synthesis.

**Direction for Use:** Apply small dots on the targeted area. And tap the applied area with fingertip for absorption. Use every morning and night.

**Main Ingredients:** Epidermal Growth Factor (EGF), basic Fibroblast Growth Factor (bFGF), Copper Tripeptide-1, IgY, Lactoferrin, WKC

**Case1:** 20 yrs Male

**Before**

**3 Weeks After**

**Case2:** 22 yrs Female

**Before**

**3 Weeks After**
Skin Trouble Care
– Removing Scars

+ Dermaheal Post Laser Cream 15g
Helps reduce and remove skin scars area after surgery or skin peeling.

Dermaheal Post Laser Cream is for reducing and removing the scars on the targeted area.

Direction for Use: Apply on the targeted area. And tap the applied area with fingertip for absorption. Use every morning and night.

Main Ingredients: Epidermal Growth Factor (EGF), basic Fibroblast Growth Factor (bFGF), Copper tripeptide-1, Plant Extract Complex

Healing Effect after Surgery
Dermaheal Post Laser Cream was applied the hypofix surgical tape for 2 weeks, once daily, starting a week after surgery.

Before

After

Post Laser Cream
Placebo
Iontophoresis electric patches

This is an innovative thin, flexible, micro-electric patch platform, effectively improving the delivery of cosmetic actives. These new generation patches help enhance and improve the delivery of Caregen’s Growth Factors and Peptides to the skin. Our patented patches are based on a printed battery that is safe, gentle, and pleasant to the skin. Completely safe and easy to use, these patch treatments are self-applied for approximately 20 minutes of pure indulgence, offering a luxurious spa-like experience at home. Dermaheal Iontophoresis kit treatments bring together the innovation of high-tech to cosmetics offering immediate and visible results.

By applying a polarity current to the delivery electrode, the charged ingredients are repelled from the electrode and forced through the stratum corneum.

A unique tailor made, power source for micro-electronics products.
Ultra thin and flexible Patented Paper Battery
Safe and environmental friendly materials
Dermahel Iontophoresis Anti-aging Kit is developed based on the cutting edge biotechnology. Patented biomaterials will rejuvenate aging skin by stimulating collagen production, reducing wrinkle formation and increasing skin elasticity. Results in healthy and younger looking skin.

**Active ingredients:** EGF, bFGF, IGF-1, TRX, aFGF, Acetyl Decapeptide-3, Oligopeptide-20, Acetyl Hexapeptide-8, Palmitoyl Pentapeptide-3, Copper Tripeptide-1, Multi-vitamins, Minerals

**Direction for use:** Apply the Anti-aging Gel to the patch and put it on to the target area.

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**Recommended time:** 20 minute

After removing the patch, use the highly concentrated cream for more effective and faster result. The patch is claimed to be highly effective when used once or twice a week. For external use only. Avoid contact with eyes. Keep out of reach of children.

**Anti-aging Cream**

Apply a small amount of this cream after washing your face with the cleanser and toner. Massage from inside towards the outside according to the skin texture. Use it twice daily in the morning and night.
Dermaheal Iontophoresis Anti-pigmentation Kit is developed based on the cutting edge biotechnology. Patented biomaterials will remove hyperpigmented areas such as spots in skin. Results in lighter and brighter skin.

**Active ingredients:** TRX, Oligopeptide-34, Pentapeptide-13, copper Tripeptide-1, Coenzyme Q10, Arbutin, Vitamin C, Licorice Extract, Ginkgo Biloba leaf Extract, Oryza sativa Hull Extrac, Green Tea Extract, Multi-vitamin, Minerals

**Direction for use:** Apply the Anti-pigmentation Gel to the patch and put it on to the target area.

**Recommended time:** 20 minute
After removing the patch, use the highly concentrated cream for more effective and faster result. The patch is claimed to be highly effective when used once or twice a week. For external use only. Avoid contact with eyes. Keep out of reach of children.

**Anti-pigmentation Cream**
Apply a small amount of this cream after washing your face with the cleanser and toner. Massage from inside towards the outside according to the skin texture. Use it twice daily in the morning and night.
**Home Professional Care**

– Iontophoresis Electro Kit

**Iontophoresis Anti-cellulite Kit**

<table>
<thead>
<tr>
<th>Item</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anti-cellulite Cream</td>
<td>60ml</td>
</tr>
<tr>
<td>Anti-cellulite Gel</td>
<td>30ml</td>
</tr>
<tr>
<td>Anti-cellulite Patch</td>
<td>4 patches</td>
</tr>
</tbody>
</table>

Dermahel Iontophoresis Anti-cellulite Kit is developed based on the cutting edge biotechnology. Patented biomaterials will destroy cellulite by decomposition of fat tissue and rejuvenate aging skin by stimulating collagen production, reducing fat reformation and increasing fat burning. Results in smooth and healthier looking skin.

**Active ingredients:** IGF-1, TRX, Phosphatidyl Choline, Carnosine, L-Carnitine, Caffeine, Caprylic Capric Triglyceride, Vitamin C

**Direction for use:** Apply the Anti-cellulite Gel to the patch and put it on to the target area.

1. Remove the patch from the plastic sheet.
2. Turn the patch over.
3. Apply the gel on the dry grey area.
4. Ensuring that the gel covers the treatment zone.
5. Apply the patch to the target area as illustrated.
6. Remove patch after twenty minutes and discard.

**Recommended time:** 20 minute

After removing the patch, use the highly concentrated cream for more effective and faster result. The patch is claimed to be highly effective when used once or twice a week.

**Anti-cellulite Cream**

Apply a small amount of this cream after washing your body with a body washer. Massage from inside towards the outside according to the skin texture. Use it twice daily in the morning and night.
Professional Care
- Adipose-derived Stem Cell Extract with Bioengineered Growth Factors

**Dermaheal Stem C’rum**

**Dual Ampoule System**
- Lyophilized Ampoule 6 vials
- Stem C’rum Solution 6 ml, 6 vials / Set

**Adipose-derived Stem Cell Extract**

The Dermaheal Stem C’rum is composed of Adipose-derived Stem Cell extract and Growth Factors in high concentrations. The Dermaheal Stem C’rum helps the proliferation of stem cells in skin, thereby regenerating damaged skin tissues by aging or wrinkle and maintaining elasticity. Adipose-derived Stem cell (ASC) is a somatic stem cell contained in fat tissue. ASC are multi-potent cells that abundantly exist in tissue, and therefore, they are ideal as a cell source in the field of regenerative medicine. Our Nano-capsulation technology enables it to infiltrate key ingredients, concentrated seven Growth Factors (60 ppm each / vial) and extracted proteins, of the Stem C’rum into skin. The infiltrated ingredients promote the differentiation of adult stem cells into skin cells, which makes Anti-aging, Anti-wrinkle and Anti-pigmentation effects.

**Method to maximize performance and optimize effect of Stem C’rum**

Microneedle therapy / Fractional Laser / Iontophoresis

**Main Ingredients:**
- EGF, IGF-1, bFGF, TRX, VEGF, aFGF, TGF-β1 (60 ppm each / vial),
- Human Adipocyte Conditioned Media Extract

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**Infiltration test of Growth Factor in Stem C’rum**

After the topical treatment of the Stem C’rum, Growth Factor in the Stem C’rum was shown in epidermis and dermis in fluorescence assay.

**Long term stability of Stem C’rum Nanosome in high temperature**

[Graph showing relative rate (%) over time with Day for incubation at 37°C]
Professional Care
- Adipose-derived Stem Cell Extract with Bioengineered Growth Factors

**Stem C’rum activates stem cell proliferation**

Increase of cell proliferation was observed on Adipose-derived Stem Cell by Stem C’rum.

**Stem C’rum induce differentiation of Adipose-derived Stem Cell into skin keratinocyte**

Differentiation by Caregen Stem C’rum. Adult stem cells in human body were differentiated into various skin cells by the action of conditioned media extract and with the main ingredient of the Stem C’rum.

**Increased the collagen synthesis after Stem C’rum treatment**

Collagen synthesis in dermis was increased by the treatment of Stem C’rum and the damaged human skin tissue was regenerated.

**Decreased the dermal wrinkles and pigmentation after Stem C’rum treatment**

42 yrs Female

Treatment of Stem C’rum with 8 weeks decreased the dermal fine lines and wrinkles, decreased the aged pigmentation and spot.
Professional Care
- Adipose-derived Stem Cell Extract with SR (Skin Rejuvenating Solution)

Dermaheal Stem C’rum SR (Skin Rejuvenating)
Lyophilized Powder 5vials + Stem C’rum SR Solution 5ml, 5vials / set

Reduces and prevents fine lines and wrinkles with newly generating skin cells.
Strengthens skin elasticity by inducing the synthesis of collagen, elastin and other ECM.
Hydrates dry skin and helps it to maintain its optimum moisture balance.

Direction for Use: Use general face mesotherapy and mesoroller (microneedle) method.
Step 1. Remove both caps from the vials
Step 2. Inject (or pour) the solution to powder vial
Step 3. Gently mix well

Main Ingredients: Epidermal Growth Factor (EGF), Insulin like Growth Factor-1 (IGF-1),
basic Fibroblast Growth Factor (bFGF), Thioredoxin (TRX),
Vascular endothelial Growth Factor (VEGF), acidic Fibroblast Growth Factor (aFGF), Human Adipocyte Conditioned Media Extract,
Transforming Growth Factor-β1 (TGF-β1) (10 ppm each/vial)

Cell proliferation activity of Stem C’rum SR

Increase of Human epidermal cell proliferation by Stem C’rum SR

Clinical data of Stem C’rum SR

Fine line wrinkles has decreased after using Stem C’rum SR for 8 weeks in this clinical test.

Change in the parameter Ra value during the testing

Control

Before

Treated

After
Professional Care
- Adipose-derived Stem Cell Extract with HL (Anti-hair Loss Solution)

Dermaheal Stem C’rum HL (Anti-hair Loss)
Lyophilized Powder 5vials + Stem C’rum HL Solution 5ml, 5vials / set

Moisturizes, nourishes and improves the hair and scalp condition.
Promotes blood circulation in the scalp and revitalizes hair follicles.
Induces hair growth as increasing the size of hair follicle and stops hair loss.

Direction for Use: Use general mesotherapy and mesoroller (microneedle) method.
Step 1. Remove both caps from the vials
Step 2. Inject (or pour) the solution to powder vial
Step 3. Gently mix well

Main Ingredients: Insulin like Growth Factor-1 (IGF-1), basic Fibroblast Growth Factor (bFGF), Vascular Endothelial Growth Factor (VEGF) [10 ppm each / vial], Copper Tripeptide-1, Biotin, Human Adipocyte Conditioned Media Extract, Amino Acids, Minerals and Vitamins

Hair growth test of Stem C’rum HL

Control
Treated

Control
Treated

Length and thickness of hair have been increased in the hair root organ, when applied with Stem C’rum HL.
Professional Care
– Mesotherapy

Skin Care

+ **Dermaheal SR (Skin Rejuvenating) 5mlx10vials / set**
Noticeable effects on the reduction of fine lines and wrinkles by generating new skin cells.

Reduces and prevents fine lines and wrinkles with newly generating skin cells. Strengthens skin elasticity by inducing the synthesis of collagen, elastin and other ECM. Hydrates dry skin and helps it to maintain its optimum moisture balance.

**Direction for Use:** Use general face mesotherapy and mesoroller method.

**Main Ingredients:** Epidermal Growth Factor (EGF), Insulin-like Growth Factor-1 (IGF-1), basic Fibroblast Growth Factor (bFGF), Thioredoxin (TRX), Copper Tripeptide-1, Multi-vitamins, Amino acids and Minerals

+ **Dermaheal SB (Skin Brightening) 5mlx10vials / set**
Noticeable effects on reduction and prevention of hyperpigmentation by decreasing the melanin synthesis.

Reduces and prevents hyperpigmentation and fights aged spots in the skin.

**Direction for Use:** Use general face mesotherapy and mesoroller method.

**Main Ingredients:** CG-TGP2(Oligopeptide-34), CG-ASP(Pentapeptide-13), Ascorbic acid(Vitamin C), Arbutin

+ **Dermaheal HSR (1% Hyaluronic Skin Rejuvenating) 5mlx10vials / set**
Noticeable effects on the reduction of fine lines and wrinkles by generating new skin cells.

Reduces and prevents fine lines and wrinkles with newly generating skin cells. Strengthens skin elasticity by inducing the synthesis of collagen, elastin and other ECM. Hydrates dry skin and helps it to maintain its optimum moisture balance.

**Direction for Use:** Use general face mesotherapy and mesoroller method.

**Main Ingredients:** Epidermal Growth Factor (EGF), Insulin-like Growth Factor-1 (IGF-1), basic Fibroblast Growth Factor (bFGF), Thioredoxin (TRX), Copper Tripeptide-1, Hyaluronic Acid(1.0%), Multi-vitamins, Amino acids and Minerals
Professional Care
– Mesotherapy

Hair Care

**Dermaheal HL (Anti-hair Loss) 5ml x 10 vials / set**
Nourishes and stimulates the hair follicles and increases the blood circulation in the scalp.

- Moisturizes, nourishes, and improves the hair and scalp condition.
- Promotes blood circulation in the scalp and revitalizes hair follicles.
- Induces hair growth as increasing the size of hair follicle and stops hair loss.

**Direction for Use:** Use general scalp and target area mesotherapy and mesoroller method.

**Main Ingredients:** Insulin-like Growth Factor-1 (IGF-1), basic Fibroblast Growth Factor (bFGF), Vascular Endothelial Growth Factor (VEGF), Copper Tripeptide-1, Multi-vitamins, Amino acids and Minerals

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**Dermaheal LL (Lipolytic) 5ml x 10 vials / set**
Visibly provides a gorgeous uplifted complexion by sliming fatty tissue.

- Refines texture effectively and slims your face and body with a fat burning effect.
- Strengthens skin elasticity by increasing collagen and elastin.

**Direction for Use:** Use on general body and target area mesotherapy method.

**Main Ingredients:** Insulin-like Growth Factor-1 (IGF-1), Phosphatidylcholine, L-Carnitine, Multi-vitamins, Amino acids and Minerals

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**Treatment**
- 1 session (vial) every 1 week for 1 month
- Determine the ideal maintenance treatments for each patient
Professional Care
– Needle Free Mesotherapy

Conductive Gels for Needle Free Mesotherapy
Needle Free Mesotherapy is a new technique without pain and bruising. The over the barriers that Needle Mesotherapy created.
- Innovative and pain-free aesthetic treatment.
- Shorten time between treatments and effectiveness.
- Treat on larger areas.
- Back to normal activities after treatment.

Premixed Growth Factors for Each Application
Direction for use: Use general needle free mesotherapy method as follows:
Iontophoresis / Electrophoresis / Phonophoresis / Isophoresis

- Face and Neck Therapy
  Dermaheal FAA Gel (Anti-aging Facial) 30ml
  Main Ingredients: EGF, IGF-1, bFGF, aFGF, TRX, Copper Tripeptide-1, Hyaluronic Acid, Arbutin, Vitamin C

  Dermaheal SL Gel (Skin Lightening / Anti-pigmentation) 30ml
  Main Ingredients: TRX, Arbutin, Coenzyme Q10, Licorice Extract, Ginkgo Biloba leaf Extract, Vitamin C, Hyaluronic Acid

  Dermaheal AA Gel (Anti-acne Facial) 30ml
  Main Ingredients: EGF, bFGF, IgY, Lactoferrin, WKC

  Dermaheal DC Gel (De-dark Circle) 30ml
  Main Ingredients: TRX, Arbutin, Coenzyme Q10, Licorice Extract, Ginkgo Biloba leaf Extract, Vitamin C, Hyaluronic Acid

- Hair and Scalp Therapy
  Dermaheal HL Gel (Anti-hair Loss) 30ml
  Main Ingredients: IGF-1, bFGF, VEGF, Copper Tripeptide-1, Biotin

- Body Therapy
  Dermaheal AC Gel (Anti-cellulite / Fat Reduction) 30ml
  Main Ingredients: IGF-1, Phosphatidylcholine, L-Carnitine, Caffeine, Caprylic Capric Triglyceride, Vitamin C

  Dermaheal SM Gel (Anti-stretch Mark) 30ml
  Main Ingredients: EGF, bFGF, Centella Asiatica Extract, Carosine, Amino Acids
Direction for Use

Anti-aging/ Anti-wrinkle/ Skin Rejuvenation

**Professional Care**

- **Washing** (Dermaheal Foaming Cleanser)
- **Soothing** (Dermaheal Cosmeceutical Skin Solution)
- **Professional Care**:
  - [1] Mesotherapy (Dermaheal SR, Dermaheal HSR, Stem C’rum SR)
  - [2] Iontophoresis (Dermaheal FAA Gel, Stem C’rum)
    ※ Choose (1) or (2)
- **Soothing** (Dermaheal Mask Pack) & Nutrition (Dermaheal Wrinkle Skinceutical Serum) ※ For 15~20 minutes
- **Washing** (Dermaheal Foaming Cleanser)
- **Soothing** (Dermaheal Skin Solution, Dermaheal Vitalizing Solution)
- **Nutrition** (Dermaheal Cosmeceutical Anti-wrinkle Serum, Dermaheal Vitalizing Serum, Dermaheal Wrinkle Skinceutical Serum, Dermaheal Hydro Balance Fluid)
- **Sun Protection** (Dermaheal Sun Block Cream) ※ Day time use only
- **Special Nutrition** (Dermaheal Cosmeceutical Anti-wrinkle Cream / Dermaheal Vitalizing Cream)
- **Target Area Care** (Dermaheal Cosmeceutical Eye Cream / Dermaheal Vitalizing Eye Tension Gel)

**Home Care**

- **Washing** (Dermaheal Foaming Cleanser)
- **Soothing** (Dermaheal Skin Solution, Dermaheal Vitalizing Solution)
- **Nutrition** (Dermaheal Cosmeceutical Anti-wrinkle Serum, Dermaheal Vitalizing Serum, Dermaheal Wrinkle Skinceutical Serum, Dermaheal Hydro Balance Fluid)
- **Sun Protection** (Dermaheal Sun Block Cream) ※ Day time use only
- **Special Nutrition** (Dermaheal Cosmeceutical Anti-wrinkle Cream / Dermaheal Vitalizing Cream)
- **Target Area Care** (Dermaheal Cosmeceutical Eye Cream, Dermaheal Vitalizing Eye Tension Gel)

**Special Home Care – Dermaheal Iontophoresis Anti-aging Kit**

- **Washing** (Dermaheal Foaming Cleanser)
- **Soothing** (Dermaheal Skin Solution, Dermaheal Vitalizing Solution)
- **1st Nutrition** (Dermaheal Iontophoresis Anti-aging Gel + Patch)
- **2nd Special Nutrition** (Dermaheal Iontophoresis Anti-aging Cream)
- **Sun Protection** (Dermaheal Sun Block Cream) ※ Day time use only
- **Special Nutrition** (Dermaheal Cosmeceutical Anti-wrinkle Cream, Dermaheal Vitalizing Cream)
- **Target Area Care** (Dermaheal Cosmeceutical Eye Cream, Dermaheal Vitalizing Eye Tension Gel)
Anti-pigmentation / Whitening / Skin Brightening

**Professional Care**

- Washing [Dermaheal Foaming Cleanser]
- Soothing [Dermaheal Skin Delight Solution]
- Professional Care:
  1. Mesotherapy [Dermaheal SB]
  2. Iontophoresis [Dermaheal SL Gel, Dermaheal DC Gel, Stem C’rum] ※ Choose (1) or (2)
- Soothing [Dermaheal Mask Pack] & Nutrition [Dermaheal Wrinkle Skinceutical Serum] ※ For 15~20 minutes
- Washing [Dermaheal Foaming Cleanser]
- Soothing [Dermaheal Skin Delight Solution]
- Nutrition [Dermaheal Skin Delight Emulsion, Dermaheal Lighten and Brighten Serum, Dermaheal Wrinkle Skinceutical Serum]
- Sun Protection [Dermaheal Sun Block Cream] ※ Day time use only
- Target Area Care [Dermaheal Skin Delight Spot Corrector]
- Special Nutrition [Dermaheal Skin Delight Cream]

**Home Care**

- Washing [Dermaheal Foaming Cleanser]
- Soothing [Dermaheal Skin Delight Solution]
- Nutrition [Dermaheal Skin Delight Emulsion, Dermaheal Lighten and Brighten Serum, Dermaheal Wrinkle Skinceutical Serum]
- Sun Protection [Dermaheal Sun Block Cream] ※ Day time use only
- Target Area Care [Dermaheal Skin Delight Spot Corrector]
- Special Nutrition [Dermaheal Skin Delight Cream]

**Special Home Care – Dermaheal Iontophoresis Anti-pigmentation Kit**

- Washing [Dermaheal Foaming Cleanser]
- Soothing [Dermaheal Skin Solution / Dermaheal Vitalizing Solution]
- 1st Nutrition [Dermaheal Iontophoresis Anti-pigmentation Gel + Patch]
- 2nd Special Nutrition [Dermaheal Iontophoresis Anti-pigmentation Cream]
- Sun Protection [Dermaheal Sun Block Cream] ※ Day time use only
- Target Area Care [Dermaheal Skin Delight Spot Corrector]
- Special Nutrition [Dermaheal Skin Delight Cream]
Anti-cellulite / Lipolysis / Fat Reduction

**Professional Care**
- → Washing
- → Professional Care:
  1. Mesotherapy (Dermaheal LL)
  2. Iontophoresis (Dermaheal AC Gel) ※ Choose (1) or (2)

**Special Home Care – Dermaheal Iontophoresis Anti-cellulite Kit**
- → Washing
- → 1st Treatment (Dermaheal Iontophoresis Anti-cellulite Gel + Patch)
- → 2nd Treatment (Dermaheal Iontophoresis Anti-cellulite Cream)

Anti-hair Loss / Scalp Care / Strengthen Hair Folicle

**Professional Care**
- → Washing (Dermaheal Hair Conditioning Shampoo)
- → Professional Care:
  1. Mesotherapy (Dermaheal HL)
  2. Iontophoresis (Dermaheal HL Gel, Stem C’rum HL) ※ Choose (1) or (2)
- → Nutrition (Dermaheal Hair Nourishing Solution, Dermaheal Hair Serum)

**Home Care**
- → Washing (Dermaheal Hair Conditioning Shampoo)
- → Nutrition (Dermaheal Hair Nourishing Solution, Dermaheal Hair Serum)

Acne Care

**Professional Care**
- → Washing (Dermaheal Foaming Cleanser)
- → Soothing (Dermaheal Skin Solution / Dermaheal Vitalizing Solution / Dermaheal Skin Delight Solution)
- → Professional Care:
  1. Mesotherapy (Dermaheal SR, Dermaheal HSR, Stem C’rum SR)
  2. Iontophoresis (Dermaheal AC Gel, Stem C’rum) ※ Choose (1) or (2)
- → Soothing (Dermaheal Mask Pack)
- → Washing (Dermaheal Foaming Cleanser)
- → Soothing (Dermaheal Skin Solution / Dermaheal Vitalizing Solution / Dermaheal Skin Delight Solution)
- → Nutrition (Dermaheal Wrinkle Skinceutical Serum, Dermaheal Cosmeceutical Anti-wrinkle Serum / Dermaheal Vitalizing Serum / Dermaheal Hydro Balance Fluid)
- → Target Area Care (Dermaheal DeAkni)

**Home Care**
- → Washing (Dermaheal Foaming Cleanser)
- → Soothing (Dermaheal Skin Solution / Dermaheal Vitalizing Solution / Dermaheal Skin Delight Solution)
- → Nutrition (Dermaheal Wrinkle Skinceutical Serum, Dermaheal Cosmeceutical Anti-wrinkle Serum / Dermaheal Vitalizing Serum / Dermaheal Hydro Balance Fluid)
- → Target Area Care (Dermaheal DeAkni)
Home Care & Special Care

**Sun Protection**
- Washing (Dermaheal Foaming Cleanser)
- Soothing (Dermaheal Skin Solution / Dermaheal Vitalizing Solution / Dermaheal Skin Delight Solution)
- Nutrition (Dermaheal Wrinkle Skinceutical Serum, Dermaheal Cosmeceutical Anti-wrinkle Serum / Dermaheal Vitalizing Serum / Dermaheal Hydro Balance Fluid)
- Sun Protection (Dermaheal Sun Block Cream) ※ Day time use only

**Peeling**
- Washing (Dermaheal Foaming Cleanser)
- Soothing (Dermaheal Skin Solution / Dermaheal Vitalizing Solution / Dermaheal Skin Delight Solution)
- Peeling (Dermaheal Skin Resurfacing Cream) ※ Once or twice a week, apply the cream for 8 hours

**Wound Healing after Laser Therapy / RF Therapy**
- After Laser Therapy
- Protect Wound and Moisturizing, Wound Healing (Dermaheal Post Laser Cream)
Skin Rejuvenating Mechanism

Cutting edged and patented biomaterials, which are based on biotechnology, result in bright and elastic facial texture by assisting skin rejuvenating.

Photo comparison
Pre and post treatment picture of skin rejuvenating

Dermaha cream improves the appearance of lines and wrinkles by increasing new skin cells.
Wrinkle depth reduced about 30% after 6 weeks.

1st step Prevention (Anti-oxidant)
TRX: Protect skin from free radicals Reduce free radical

2nd step Wrinkle improvement Epidermal cell proliferation & Moisturization
EGF: Proliferate epidermal cell
IGF-1: Promote epidermal / dermal cell proliferation. Synergic effect with EGF and bFGF
bFGF: Promote cell proliferation and increase biosynthesis of the hyaluronic acid synergistically with EGF and IGF-1

3rd step Wrinkle improvement Collagen, Elastin and other extracellular matrix (ECM) synthesis
EGF: Proliferate epidermal cell
IGF-1: Increase synthesis collagen and elastin
bFGF: Increase synthesis collagen and elastin
Anti-hair Loss Mechanism

Delivery of growth factors and peptides the base of follicles, to produce healthier hair and extend anagen phase of hair cycle.

**Photo comparison**
Pre and post treatment picture of hair that show re-generation

Hair nourishing solution prevents hair loss and promotes hair growth by stimulating hair follicles with Growth Factors and Peptides.

### MECHANISM OF CYTOKINES AND GROWTH FACTORS FOR ANTI-HAIR LOSS

1. **Testosterone** +5α-R → DHT +Androgen Receptor → HAIR LOSS

   **Copper peptide**
   - Inactivation

   **1st step: Prevention of anti-hair loss**
   - Copper peptide: Hair blood circulation and Scavenging dust of scalp
   - Inhibit 5α-reductase activity for anti-hair loss

   **2nd step: Promotion of hair growth** Supply nutrition in hair follicle
   - IGF-1: Strengthen hair with stimulating hair follicle to produce healthier hair
   - bFGF: Help hair blood circulation in the scalp and revitalize hair follicle
   - VEGF: Promote the formulation of new blood vessels for suppliance of alimentation in hair follicle

   Anti-hair loss complex (IGF-1, bFGF and VEGF) has a synergic effect in hair growth and prevention hair loss.

- Strengthen ECM (Extracellular Matrix) activity ➔ Normalization of hair growth cycle
- Increase fibroblast density ➔ Increase of hair thickness
- Improve blood vessel function ➔ Supplement of nutrients in hair follicle