Derma-Cosmetics for Sensitive Skin

DermaBiotech Co., Ltd
1. Unpleasant sensations in response to multiple factors
   : stinging, burning, pain, pruritus, and tingling sensations

2. Symptoms of Skin diseases
   : red face, rosacea, erythema, atopic dermatitis, acne, sun allergy etc.
3 major causes of sensitive skin

1. Abnormal skin barrier function

Disrupted skin barrier causes unpleasant sensations in response to stimuli.
2. Increase of Skin pH

The increase of skin pH causes and/or aggravates the symptoms of sensitive skin.
3 major causes of sensitive skin

3. Skin inflammation

Inflammation in skin causes and/or sustains the symptoms of skin diseases.
CICALINIC for sensitive skin

For Sensitive & Stressed Skin

Essential Skin Care Kit

PSL
Physiologic Skin Lipid
All-in-one type of skincare combination covers all skincare products. It provides the perfect solution to improve skin barrier function

Best solution for stressed skin
Recommendation for all skin types
Dermatologist Tested

PSL CREAM

BIENLOOK

CICALINIC
For Sensitive & Stressed Skin

PSL Physiologic Skin Lipid
PSL emulsion technology with natural ceramide for skin barrier function

Best solution for stressed skin
Recommendation for all skin types
Dermatologist Tested

White Flower HA Essence

BIENLOOK

6 White flowers extract
Sodium Hyaluronate
Betaine salicylate
Glycyrrhizinate

Best solution for stressed skin
Recommendation for all skin types
Dermatologist Tested

Derma cosmetics for sensitive skin, aged skin, and baby skin
1. PSL Cream for symptoms of sensitive skin

Derma-cosmetics for sensitive skin, aged skin, and baby skin
Key ingredients for PSL Cream

1. Natural ceramide for skin barrier

- Ceramides (50%)
- Cholesterol
- Free fatty acid

2. Phytosterol for anti-inflammation

PSL, physiological skin lipid

Anti-inflammatory effects of PS

PS (right) inhibits irritant-induced inflammation.
Acidic pH of CICALINIC

Both acidic PSL cream and acidic HA Bio essence soothe the skin troubles in sensitive skin.

Acidic pH of CICALINIC

: 4.5 ~ 5.0

Checked the pH of CICALINIC PSL Cream at YouTube medical channel “비온뒤 (aftertherain)”
Liquid Crystal emulsion of PSL cream

LC emulsion only stabilizes high concentrations of phytosterol, ceramide, and cholesterol etc.

[3rd Generation] Phytosterol LC

[2nd Generation] Ceramide LC

[1st Generation] Cetanol LC

Derma-cosmetics for sensitive skin, aged skin, and baby skin
Negative effects of phytosterol on formula

Phytosterol and ceramide are definitely one of best ingredients for cosmetics, however, it shows negative effects on the formulation.

Re-crystallization

Phase separation

Increase of hardness

Therefore, phytosterol & ceramide formulation is very difficult to stabilize the base.
Clinical Trial of PSL cream in hospital

- 29 subjects from male and female adults finished the test.
- Application twice a day for 2 weeks
- Study of both erythema index improvement and skin barrier function
- Clinical trial is done in Yonsei University College of Medicine in Korea
Erythema (red face) improvement

Red face (erythema) is improved significantly just after 2 weeks application.
Erythema index improvement

- Decrease of erythema index after the application of PSL cream
- Rate of the improvement when PSL cream (B cream) is compared to placebo (A cream)

Erythema Index

△ Erythema Index (Tx 2wk - pre Tx)

- Pre Tx
- Tx 2wt

- A cream (Face)
- B cream (Face)

△ Erythema Index

- p=0.001*
- p=0.02*

CICALINIC PSL Cream
Improvement of skin barrier function

Basal TEWL (transepidermal water loss) and skin pH are decreased, but skin hydration is increased after 2 weeks application.
Consumer experiences

10 days use

2 weeks use

Derma-cosmetics for sensitive skin, aged skin, and baby skin
Consumer experiences

before use  7 days use  30 days use

A week use
Consumer experiences

A week use of cream and essence
### User responses at Kakao (Talk) Makers

**Satisfaction after the use - 90%**

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(417 responses)
장품리뷰

상품을 구매하신 분들이 작성하신 리뷰입니다. 리뷰 작성시 아래 금액만큼 포인트가 적립됩니다.
텍스트 리뷰: 500원 | 포토/동영상 리뷰: 1,150원 | 한달사용 텍스트 리뷰: 1,050원 | 한달사용 포토/동영상 리뷰: 2,150원 | 스토어링 고객 추가급: 60원

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스토어 PICK 판매자가 직접 선정한 베스트 리뷰입니다.

1. [리뷰1]
   - 너무나도 좋아하는 시카리너 크림입니다. 자주들어도 추천 찾아보겠습니다. 여름동안면 크림 사두었던 거로 가볍게 사용했는데 이제 겉돌이 다가오니 크림을 꼭 필요하게 바라요.

2. [리뷰2]
   - [ ruge ] 5 20.10.18.
   - [ 리구리 ] 작년부터 여자친구가 꾸준히 사용하고 있는데 수부지 피부가 뿌리자같은데 자주 쓰러왔는데 psl 사용하고 피부가 아기같아져서 너무 좋아요.
Obtain strong, healthy skin with new products by DermaBiotech

Julie Kim
K-Herald Korea

Nowadays, beauty has evolved beyond just fashion and putting on a full face of make-up. People have become more enticed by simplicity – a natural, healthy look. With healthy, glowing skin, many men and women can feel confident in showing off their bare faces. Due to the growing demand in effective skincare products, many companies have been putting out unique lines to spark some competition in the market. However, it has become evident that one company seeks to trump the rest. DermaBiotech, a growing company in Korea, vows to create products that will help every individual achieve the perfect skin they desire.

DermaBiotech has introduced two new products to the market – CICALINIC and Dr. BARIA’. CICALINIC is an effective regeneration cream for sensitive skin and is known to improve redness. It is also known to strengthen the overall barrier of the skin and maintains its pH balance. CICALINIC is different from the typical moisturizer due to its high moisture and use of natural ingredients; high skin affinity for a smoother application, convenient pump tube, and an overall safer formula.

Dr. BARIA’, an acidic moisturizer used specifically for specialized skin conditions such as atopic dermatitis, acne-prone skin, and even child skincare. What is especially unique about this product is its formulation of natural origins-ceramide to improve the overall barrier of the skin and its maintenance of our epidermal homeostasis. The moisturizer also does not contain any ingredients that might irritate the skin, which other products in the market are known to use such as ethyl alcohol or artificial fragrances. There is also another product called Dr. BARIA A10 Hair & Body Cleanser that is commonly used for baby skincare. It contains six types of oriental herbal extracts made of yeast fermentation to relieve skin irritation. It is used the same way as any other shampoo or body wash.

All in all, DermaBiotech has proven to be revolutionary in terms of regenerating our skin and not only treating certain epidermal abnormalities, but preventing them from reappearing. With different companies attempting to solve the ongoing mystery of effective skincare, DermaBiotech has surely climbed its way up by ensuring the general population that there is hope for everyone to obtain the strong, healthy skin they deserve.

▲ DermaBiotech Co., Ltd.
▲ Brand Name: Dr. BARIA/ CICALINIC
▲ CEO: Jong-Kyung Youm
▲ E-mail : youmjk@dermbt.com
▲ www.dermabt.com
▲ T : +82-31-746-1703
Recommendation at YouTube medical channel "비온뒤"
2019 Seoul Award as excellent product

Certificate of Designation

2019 Seoul Award

Award Category : Idea product
Company Name : DermaBiotech Co., Ltd.
Product Name : CICALINIC / PSL CREAM

We hereby certify that the above product has been given a 「2019 Seoul Award」 in recognition of its growth potential as an excellent product on the basis of outstanding ideas.

Dec 17, 2019

Chairman of the Private Brand Selection Committee, Seoul Business Agency
3D video of PSL Cream

https://youtu.be/myCSuJqSeQs

Derma-cosmetics for sensitive skin, aged skin, and baby skin

DermaBiotech Co., Ltd
2. CICALINIC HA Bio Essence
HA Bio Essence for acne and skin dryness

1. Essence for skin dryness and inner tension

2. Key ingredients
   - Biosaccharide Gum-1
   - Betaine salicylate (BSA)
   - Hyaluronate (HA) at a high concentration
   - Glycyrrhizinate (GA) at a high concentration

3. Effects & characteristics
   - moisturizing, anti-inflammatory, and soothing effects from biosaccharide gum-1
   - Improvement of skin troubles or acne by BSA
   - Increase of moisturizing effect and skin barrier function by high concentration HA
   - Soothing, calming, anti-stress, and sebum control from GA
   - Acidic essence for skin pH control
   - Toner and essence in one
Key ingredients for HA Essence

1. Hyaluronate for skin barrier

2. Salicylate for anti-inflammation
   (BSA, betaine salicylate)
**Biosaccharide Gum-1**

- A fermentation gum derived from sorbitol. It is described as a trisaccharide polymer of L-fucose & D-galactose & galacturonic acid.

- It is well known that it has a variety of effects on skin including moisture, soothing, anti-inflammatory, anti-cancer, skin immune etc.

- It is developed through an eco-friendly fermentation process, and is a raw material developed with a very high concentration of biosaccharide gum.

- It’s an excellent ingredient for sensitive skin because it gives moisturizing, anti-inflammatory, and soothing effects on skin.
Glycyrrhizinate (GA) for sebum control

Glycyrrhizic acid (GA) is the main compound contained in the licorice and acts directly on the various effects of the licorice. In particular, it helps improve various skin diseases such as eczema, atopic dermatitis, and acne. It also improves skin troubles by doing anti-bacterial, anti-inflammatory activities. It also provides anti-aging effects such as inhibition of both skin aging and melanin production.

**Key Functions**
- Sebum control, skin troubles improvement
- Anti-oxidant, anti-aging effects
- Anti-inflammation
- Skin whitening, inhibition of melanin synthesis
- Soothing, detox, skin immune control
**HA essence for Inner tension improvement**

- Inner draw feeling induced by skin surface dryness at the time of changing seasons and in winter
- Dry skin as well as oily skin may suffer. Acne skin as well.
- Need to reduce inner tension by preventing skin surface dryness and exfoliating the dead skin cells.

**BSA**
- BHA for mild exfoliation
- Anti-inflammation, anti-acne

**HA**
- High concentration HA provides high moisturizing effect
- Increase of skin barrier function

**BG-1 & GA**
- Anti-oxidant, skin protection
- Soothing and detox effects
HA essence for acne improvement
Natural fragrance with herb oils

7 natural herb oils are used as a natural fragrance for the sensitive skin without skin irritation because they don't last long on skin. It helps to soothe the skin and gives a refreshing aroma effect as well. Lavender oil, lemon peel oil, lime peel oil, eucalyptus leaf oil, rosemary leaf oil, anthemis nobilis flower oil, pelargonium graveolens flower oil are mixed.
Consumer experiences

5 days use

Derma-cosmetics for sensitive skin, aged skin, and baby skin
Consumer experiences

5 days use
Consumer experiences

5 days use

before after

before after
Recommendation at YouTube medical channel “비온뒤”

https://youtu.be/osyCB4Rv3TM

"CICALINIC Essence showed relatively high performance-to-cost ratio"
Video of HA Bio Essence

https://youtu.be/FuBDO1GV01g
3. Dr.BARIA for atopic dermatitis & baby skincare
Dr. BARIA cream, lotion, cleanser

Derma cosmetics for sensitive skin, aged skin, and baby skin
 Characteristics of Dr.BARIA

- Yeast-origin natural ceramide for skin barrier
- PSL emulsion technology
- Acidic pH for the soothing effect on skin

- Bodywash and shampoo made with plant-origin surfactants. Sulfate-free
- Free of paraben, phenoxyethanol, ethanol, petrolatum-mineral oil, and pigments
- Neither oily nor greasy. But high hydration by ceramide barrier
Ceramide 3 for Dr.BARIA formula

- Human skin-identical ceramide 3 from yeast fermentation

  Ceramide 3 precursor (phytosphingosine) is first obtained by yeast fermentation, and a subsequent acylation of the sphingoid base with a fatty acid leads to ceramide 3 with the correct configuration of the skin.

A yeast strain (left: microscopic photo) for the production of Ceramide 3
Liquid crystal emulsion for ceramide stabilization

- LC structure is the best way to stabilize super hydrophobic compounds such as ceramides, phytosterols, cholesterol, etc.
- LC emulsion has a very similar structure to skin lipid in stratum corneum, and then gives a high affinity with skin.
- LC emulsion also provides one of the best vehicles to deliver effective ingredients to skin.
- Ceramide-including LC emulsion enhances both skin barrier function and skin hydration.
# Optimized ceramide 3 mixture, PSL

## Physiological Skin Lipid mixture, PSL®

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Optimization of Physiological Lipid Mixtures for Barrier Repair

Man Mao-Qiang,*, Kenneth R. Feingold,*, Carl R. Thornfeldt,† and Peter M. Elias*  
*Department of Dermatology and Medicine, Veterans Administration Medical Center; Departments of Dermatology and Medicine, University of California School of Medicine, San Francisco, California 94121, U.S.A.; and †Cellegy Pharmaceutical Corporation, Novato, California 94949, U.S.A.

Man MQ et al., J Invest Dermatol. 1996

Derma-cosmetics for sensitive skin, aged skin, and baby skin

DermaBiotech Co., Ltd
Dr.BARIA made through LC emulsion

Physiologic Skin Lipid mixture, PSL®

Dr.BARIA has developed LC emulsion for stabilizing PSL mixture with natural ceramide 3. Dr.BARIA optimizes the effects of ceramide 3 on skin barrier function and stabilizes ceramide 3 not to be re-crystalized.

* PSL for barrier repair:
  - Ceramide 3
  - Cholesterol, Phytosterol
  - Free fatty acid
Acidic pH of Dr.BARIA

Acidic pH of Dr.BARIA Cream and Lotion soothe the skin troubles in baby skin and/or in atopic dermatitis.

Effect of skin pH on skin barrier homeostasis
Comparison of ingredients with mass products

1. Dr.BARIA ATO PSL Cream

Ingredients:
Aqua, Glycerin, Caprylic/Capric Triglyceride, Butylene Glycol,
Cetearyl Alcohol, Phytosqualane,
Macadamia Integrifolia Seed Oil,
Helianthus Annuus (Sunflower) Seed Oil, Cetearyl Olivate/Sorbitan Olivate, Pentylene Glycol,
Glyceryl Stearate,
Tocopheryl Acetate, Stearic Acid,
Ceramide 3, Cholesterol,
Glycine Soja (Soybean) Sterols,
Camellia Japonica Seed Oil,
Olea Europaea (Olive) Fruit Oil,
Hydrogenated Olive Oil,
Saururus Chinensis Extract,
Ulmus Davidiana Root Extract,
Sodium Citrate, Sodium Hyaluronate,
Beta-Glucan, Behenyl alcohol,
C14-22 Alcohols/C12-20 Alkyl Glucoside,
Nicotinamide, Dimethicone,
Arginine, Citric Acid,
Citrus Aurantium Dulcis (Orange) Oil,
Carbomer, Xanthan Gum,
Disodium EDTA

4 PSL ingredients for skin barrier
Acidic pH

2. PHYSIOGEL Intensive Cream

Ingredients:
Aqua, caprylic/capric triglyceride, glycerin,
pentylene glycol, cocos nucifera (coconut) oil,
hydrogenated lecithin, Butyroserum parkii,
hydroxyethylcellulose, squalane, carbomer,
xanthan gum, sodium carbomer, ceramide 3.

Very small amount of Ceramide only
Neural pH

3. Cetaphil Moisturizing Cream

Ingredients:
WATER, PETROLATUM, GLYCERYL POLYMETHACRYLATE, DICAPRYL
ETYER, GLYCERIN, DIMETHICONE, GLYCERYL STEARATE, CETYL ALCOHOL, PRUNUS
AMYGDALUS DULCIS (SWEET ALMOND) OIL, PEG-30 GLYCERYL STEARATE, TOCOPHERYL
ACETE, BENZYL ALCOHOL, PHEHYXYETHANOL, SODIUM HYDROXIDE,
ACRYLYTES/C10-30 ALKYL ACRYLATE CROSSPOLYMER, DIMETHICNOL, DISODIUM
EDTA, PROPYLENE GLYCOL

No PSL ingredients
Neural pH
Vs. PHYSIOGEL Cream

Ingredients of PHYSIOGEL Cream

PM photo of PHYSIOGEL Cream
(polarization microscope, x200)

Most products selling at a market have very low concentration of ceramide because it's just a concept ingredient such as PHYSIOGEL.
Consumer experiences with Dr.BARIA

- 12 months old
- A week use

- 4 years old
- A week use
Consumer experiences with Dr. BARIA

Derma-cosmetics for sensitive skin, aged skin, and baby skin
Consumer experiences with Dr.BARIA

A week use

A week use

Derma-cosmetics for sensitive skin, aged skin, and baby skin
Video of Dr.BARIA

For your children, now, start Dr.BARIA

https://youtu.be/Zq7qLzHmfd8

Derma-cosmetics for sensitive skin, aged skin, and baby skin
CV of CEO (Youm, Jong-Kyung)

DermaBiotech Co., Ltd.  CEO / Ph.D

B.S & M.S, Agricultural Science, Seoul National University, Korea
Ph. D, Medical Science, Yonsei University, Korea (Dermatology Lab)
Postdoctoral Fellowship in UCSF/VAMC: the world best team in skin barrier research

Aekyung Industry Central Research Center
Enprani R&D Center of Skin Science and Cosmetics
Skin Research Team Manager, Cosmax R&I Center
Founding Member of Neopharm. Developer of ATOPALM & ZEROID
Adjunct Professor, College of Pharmacy, Chungbuk National University
Chief of Publishing Committee, The Korean Society for Skin Barrier Research
Evaluator of Technological R&D Program of the Small and Medium Business Administration (SMBA, Korea)

Industry Technologies Exposition Excellence Award
Acquired a Certificate of New Korean Excellent Technology (KT Mark) from Ministry of Science and Technology
Government projects performed: new compounds development or clinical research of atopic allergy, xerosis, skin ageing, etc.

★★★★★ Served as a postdoctoral research fellow at the world best UCSF team in skin barrier research
★★★★★ CEO has researched and developed the products himself