



# FILLOSHINE GFP PG 10.5

## GFP SERIES



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TO INSPIRE SKIN CONFIDENCE

# FILLOSHINE



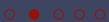
## BIO-FD&C Company Introduction & Core Technologies

There is no eternal youth and health. Aging research, however, can help you keep more young and healthy, That is the reason why we, BIO-FD&C exist. BIO-FD&C CO., Ltd. was founded in 2005, as a research and development-oriented bio-venture company, to perform innovative R&D in the area of anti-aging, treatment of skin diseases with cutting edge bio-technologies. We research and develop cosmetic ingredients and drug candidates, and the products include recombinant proteins, functional peptides, plant callus extracts, traditional herbal extracts, and various novel nano-biomaterials. We, also, provide functional evaluations in customer's materials to develop as services. We will continue innovative R&D and make every efforts to satisfy cosmetic manufactures and customers, partners, stockholders, and our employees.



TO INSPIRE SKIN CONFIDENCE

# FILLOSHINE



## BIO-FD&C Company Introduction & Core Technologies

BIO-FD&C Co., Ltd.  
Medical Nanomaterial Institute

Since its foundation in 2005, we have been striving for the development and industrialization of bio-active and high-value-added biomaterials for the healthy and beautiful human life.

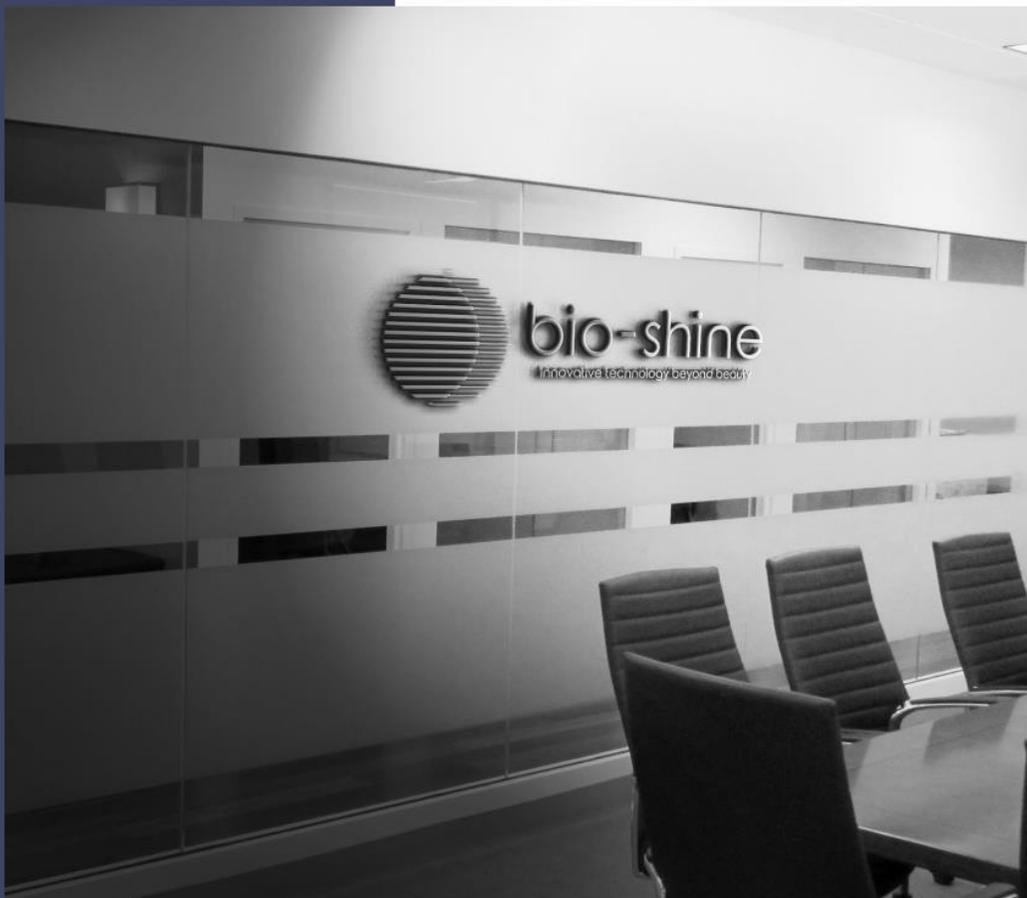
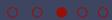
With passion and efforts for research and development, we are leading the domestic cosmetics and industrial raw materials fields based on biotechnology, Skin biology and plant tissue culture technology.

Accumulation of excellent research technology leads to selection of various national projects, successful commercialization of research projects, and has become the top company in Korea for the development of cosmetic ingredients and bioactive materials.

We promise to make steady efforts to become the best biotechnology company in the world.  
Thank you again to all of our shareholders and employees.

TO INSPIRE SKIN CONFIDENCE

# FILLOSHINE



## BIO-SHINE Company Introduction

BIO-SHINE is a company, established by a desire to understand trends, where Korean advanced medical beauty technology is redefined by studying a myriad of customers' needs since 2012. BIO-SHINE Co.,Ltd. actively delivers products using SKIN BOOSTING's core ingredients with BIO FD&C's effective components and differentiated technologies. BIO-SHINE Co.,Ltd. wide spectrum of FILLOSHINE's products specializes in regeneration of skin cells to bring to you bright and crystal clear skin. BIO-SHINE Co.,Ltd. is expanding distribution, education and service business through B2B2C channel. With this, we will create more economic opportunities for all BIOSHINE's partners for many years to come.

TO INSPIRE SKIN CONFIDENCE

# FILLOSHINE



## BIO-SHINE Company Introduction

### COMPANY VISION

Growth Factors & Biomimetic Peptides for Cosmeceuticals BIOSHINE Co., Ltd has developed bio-active recombinant proteins and growth factors using biotechnology, bio-mimetic peptides using solid phase synthesis technology, and plant stem cell materials using plant biotechnology. We are developing core materials for bio-active cosmetics and cosmeceuticals.

### BRAND MISSION

FILLOSHINE is a brand which is always pursuing innovation that breaks the status Quo and delivers beauty through continuous anti-aging research and plant cells development.

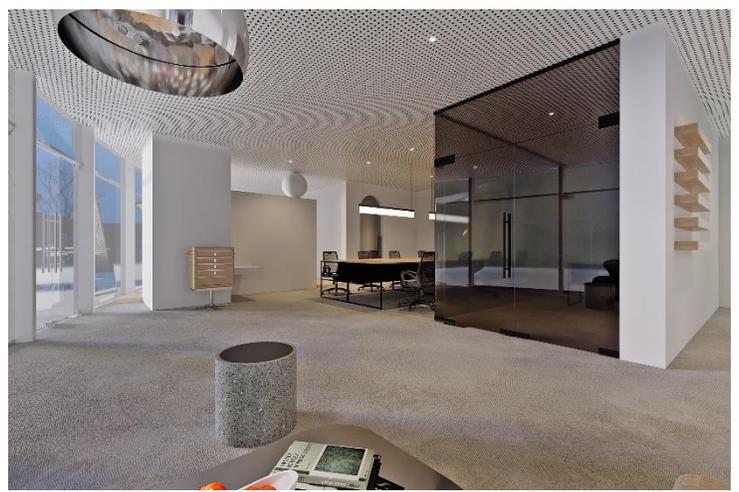
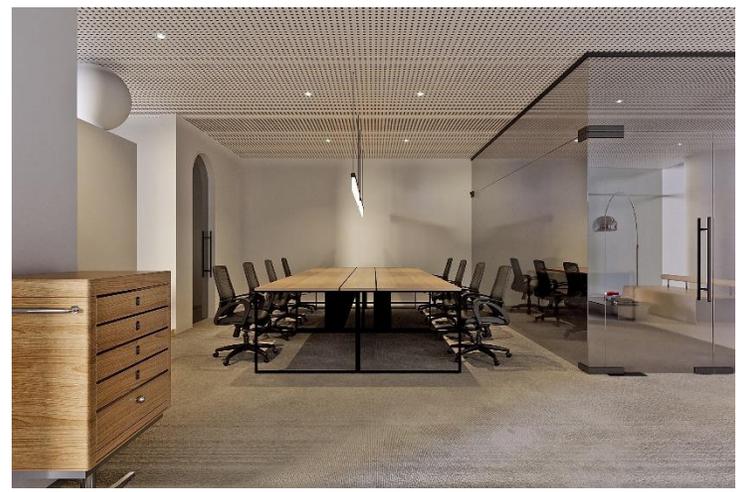
We strive to enhance the values of life standard through beauty.

Our mission is to ensure the complete satisfaction of our clients and promote maximum efficiency by manufacturing high performance cosmetics. We aim to be recognized by constantly attaining an equilibrium between beauty and well-being.



TO INSPIRE SKIN CONFIDENCE  
**FILLOSHINE**

BIO-SHINE  
Company Introduction



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TO INSPIRE SKIN CONFIDENCE

# FILLOSHINE



## To Inspire Skin Confidence

### Brand Overview

### The Bioactive Growth Factors & Biomimetic Peptides for Cosmetics and Cosmeceuticals

One of the biggest causes of skin aging is the reduction and aging of fibroblasts.

Fibroblasts are the main cells of the dermis, and the proteins they produce affect skin elasticity and moisture, including collagen and elastin. The reduction of these fibroblasts will affect the production of collagen, making the dermis thinner, wrinkled, less elastic and darker.

FILLOSHINE is a combination of growth factors and biomimetic peptides necessary for the human body and skin. The active ingredients contained in filloshine promotes the regeneration of fibroblasts in the dermal layer of the skin and keratinocytes in the epidermal layer. Improves skin regeneration through a normal 28-day skin metabolic cycle to create the young, healthy and radiant skin.



TO INSPIRE SKIN CONFIDENCE

# FILLOSHINE

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To Inspire Skin Confidence

Brand Overview

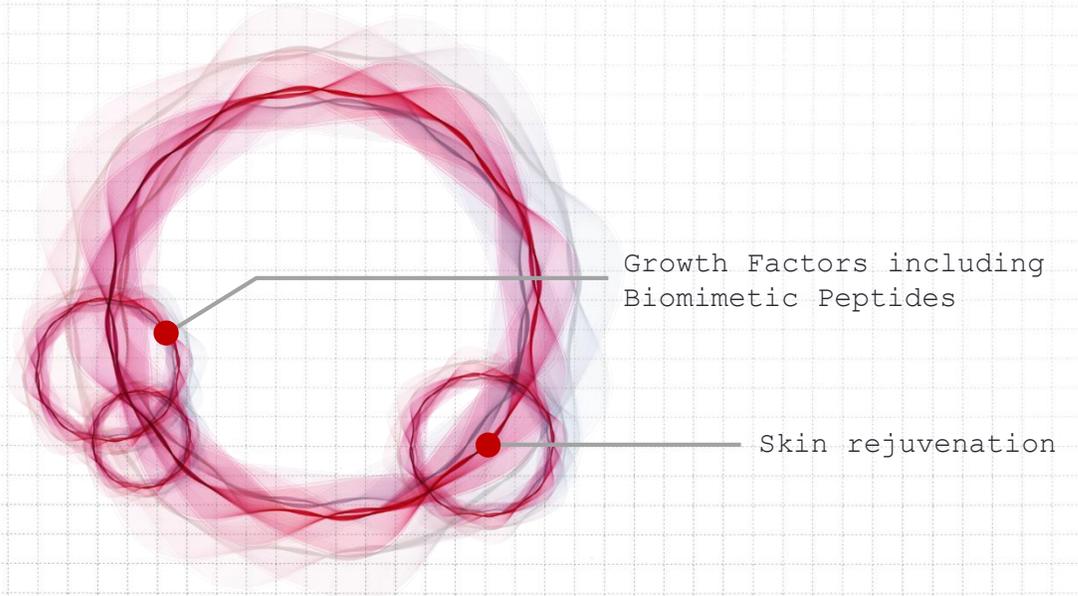
The Bioactive Growth Factors & Biomimetic Peptides for  
Cosmetics and Cosmeceuticals

The name of Filloshine is a compound word of FILLO + SHINE.  
It means filling the skin to make the skin glow from within.

The circles in the LOGO represent cells, the large circles and  
circles of different sizes show cell lysis and produce another  
type of regenerative cell.

The multi-layered circles represent the three-dimensional  
effects after cell activation, bringing multiple effects.

FILLOSHINE Symbol logo



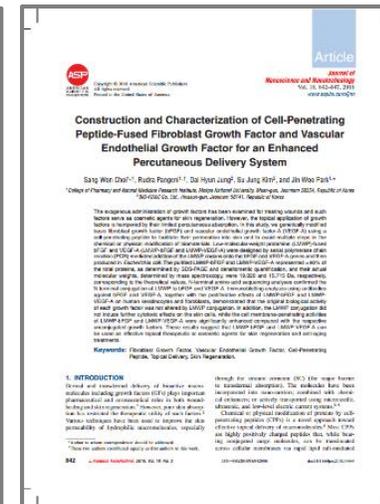
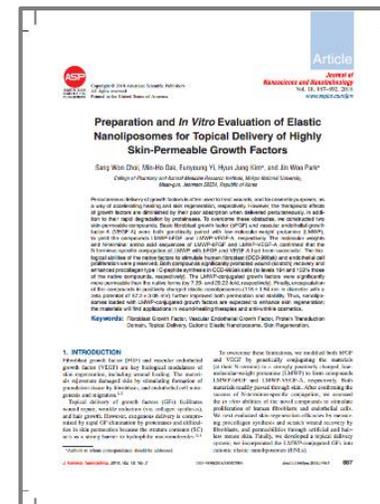
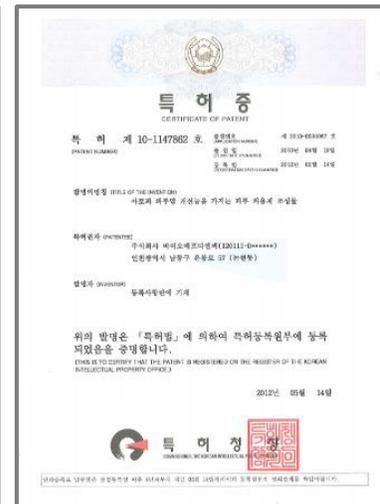
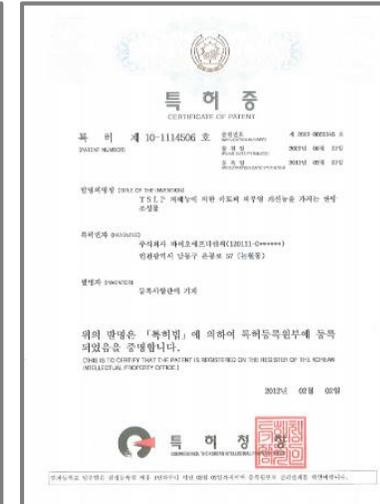
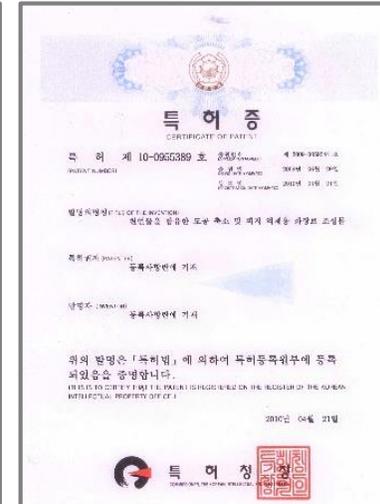
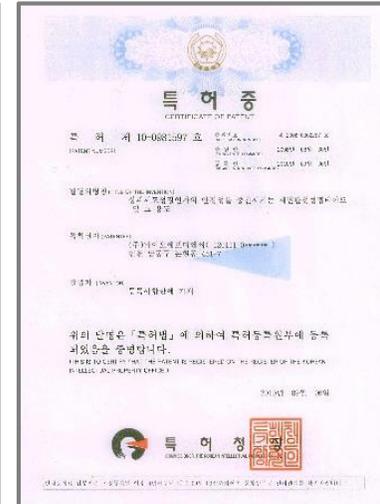
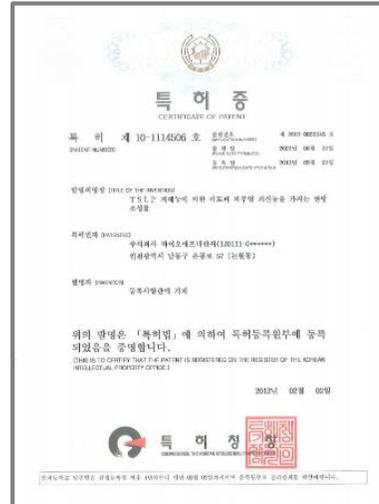
FILLOSHINE MANUFACTURER

# Patents & New Technologies



Since 2005, Filloshine - the professional manufacturing plant specializing in the R&D of cosmeceutical raw materials, has developed more than 50 biologically active recombinant proteins and growth factors, more than 50 bio-mimetic peptides, and more than 100 plant stem cells – the core material of cosmeceuticals. The research results have been patented.

At present, we own than 100 intellectual property rights of cosmetic raw materials in South Korea and 8 intellectual property rights in the world. Research results are published in the form of academic papers, and 105 academic papers have been published through self-research and development.



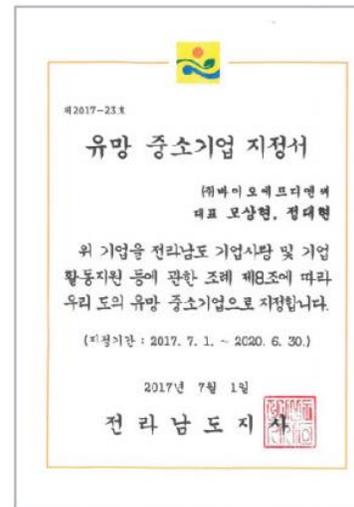
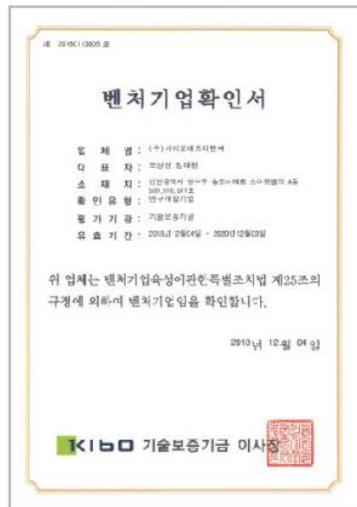
FILLOSHINE MANUFACTURER

# Certification



Using cutting-edge biotechnology to carry out innovative research and development in the fields of anti-aging and treatment of skin diseases and continue to grow, it has successfully obtained investment from Givaudan, Switzerland, which ranks No. 1 worldwide in fragrance and active ingredients.

It has obtained ISO9001 (Quality Assurance System), ISO14001 (Environmental Management System), ISO22716 (Good Manufacturing Practice for Cosmetics) and other certifications. All active raw materials and products are safely produced in a strict & professional production environment.



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# FILLOSHINE GFP SERIES



## GFP SERIES?

GFP = **G**rowth **F**actors + **P**eptides

It means the best formulated growth factors and biomimetic peptides necessary for the skin. The product series composed of this formula is called the GFP series.



**FILLOSHINE**  
just science

**GFP 10.5**  
DERMATOLOGICAL REBORNION TREATMENTS WITH GROWTH FACTORS AND BIOMIMETIC PEPTIDES

**GFP 10.5**  
1.5ml X 7 vials, Conical cap\*2ea

**FILLOSHINE**  
just science

**GFP AC 10.5**  
DERMATOLOGICAL AC SOLUTION TREATMENTS WITH GROWTH FACTORS AND BIOMIMETIC PEPTIDES

**GFP AC 10.5**  
1.5ml X 7 vials, Conical cap\*2ea

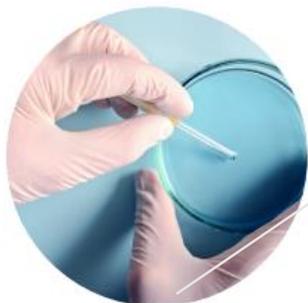
**FILLOSHINE**  
just science

**GFP PG 10.5**  
DERMATOLOGICAL PG SOLUTION TREATMENTS WITH GROWTH FACTORS AND BIOMIMETIC PEPTIDES

**GFP PG 10.5**  
1.5ml X 7 vials, Conical cap\*2ea

FILLOSHINE GFP SERIES

# Main Ingredients of GFP series



## IntoCell-Growth Factors

IntoCell growth factor is different from the previous growth factors, it is the core technology ingredient listed for the first time in the International Cosmetic Ingredient Dictionary (ICID) by the Filloshine manufacturing plant. Compared with previous growth factors, intracellular growth factors possess good skin cell permeability. It has a synergistic effect with growth factors such as fibroblast growth factor, epidermal growth factor, keratinocyte growth factor, etc., regulating skin function, restoring normal skin regeneration cycle. Patent No.10 -1813560, Patent Name : Skin physiologically active external agent composition through cell growth factor



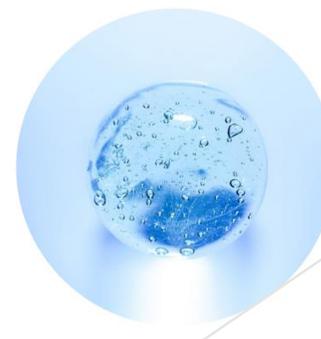
## Peptides

Biomimetic peptides are small-molecule biomaterials composed of amino acids and are a new generation of bioactive materials with high activity and safety. It has a small molecular structure and can easily penetrate into the skin. It helps to synthesize collagen and elastic fibers while eliminating damaged collagen and elastic fibers, inhibiting scar formation, and helping skin regeneration and strengthening the skin barrier.



## Amino acid, mineral and Vitamin

Amino acids, vitamins and minerals provide skin cells with rich nutrition and optimal pH value, osmotic pressure, etc., creating a healthy cell growth environment for the skin.



## Hyaluronic acid

Hyaluronic acid exists between the collagen and elastic fiber tissue of the dermis. If hyaluronic acid is lacking, the empty space will sink. Hyaluronic acid can store moisture more than 1,000 times its own weight. As a natural moisturizer with the best moisturizing power, it provides sufficient moisture and moisturizing feeling to the skin, giving the skin glow and improved elasticity, while preventing the intrusion of harmful substances such as bacteria.

FILLOSHINE GFP SERIES

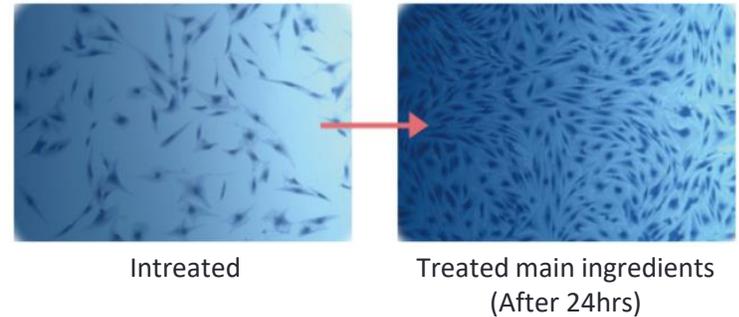
# Base Effects of GFP series

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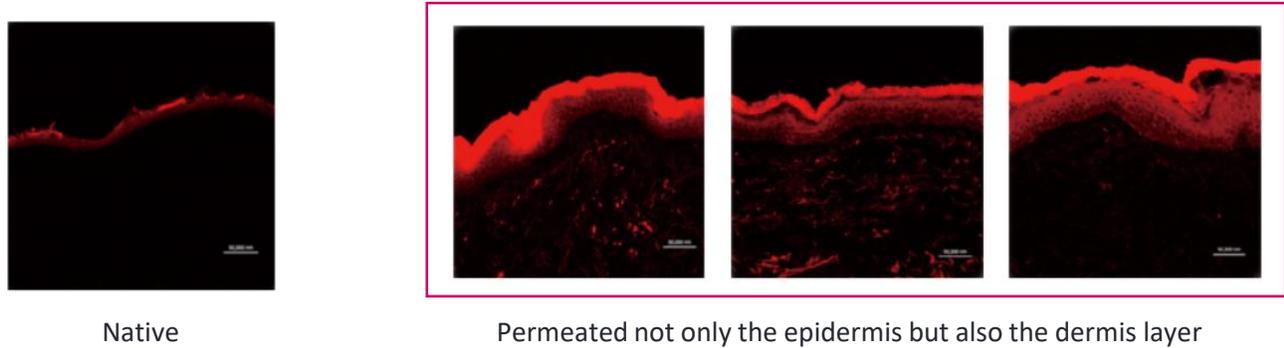
## Recovery of damaged keratinocytes



## Proliferation of fibroblasts



## IntoCell- growth factor's skin permeability of human skin tissue



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IMPROVEMENT OF PIGMENTATION SKIN

# FILLOSHINE GFP PG 10.5



## Peptides and growth factors

Regulate the physiological activity of the skin and help restore the normal metabolic cycle

## Glutathione

Has excellent antioxidant ability and helps remove reactive oxygen species in the skin

## Amino acids/vitamins/minerals

Restore healthy skin condition

## Hyaluronic acid

Create healthy and smooth skin



## GFP PG 10.5



Even if there are no wrinkles on the face but only pigmentation such as spots, the skin will appear dull. Among the reasons for spending time and money on applying makeup every day, the greatest purpose is to cover skin imperfections. Although melanin has the effect of skin protection, excessive secretion can cause pigmentation phenomena such as melasma and stains. Therefore, it is important to treat pigmentation as well as its prevention and management after treatments.

FILLOSHINE GFP PG 10.5 is formulated with skin-friendly ingredients necessary for pigmented skin. The peptides, growth factors and other ingredients contained in the product induce exfoliation of unnecessary keratinocytes, promote the production of keratinocytes, and restore the normal skin's metabolic cycle. This helps strengthen the skin barrier. In addition, powerful antioxidants that relieve skin pressure and inhibit melanin production can help skin whitening; PDRN and other ingredients that promote skin regeneration can help promote wound healing and prevent scar formation. Lastly, the amino acids/vitamins/minerals and the natural moisturizing factor hyaluronic acid help restore healthy skin, creating healthy, clean & smooth skin.

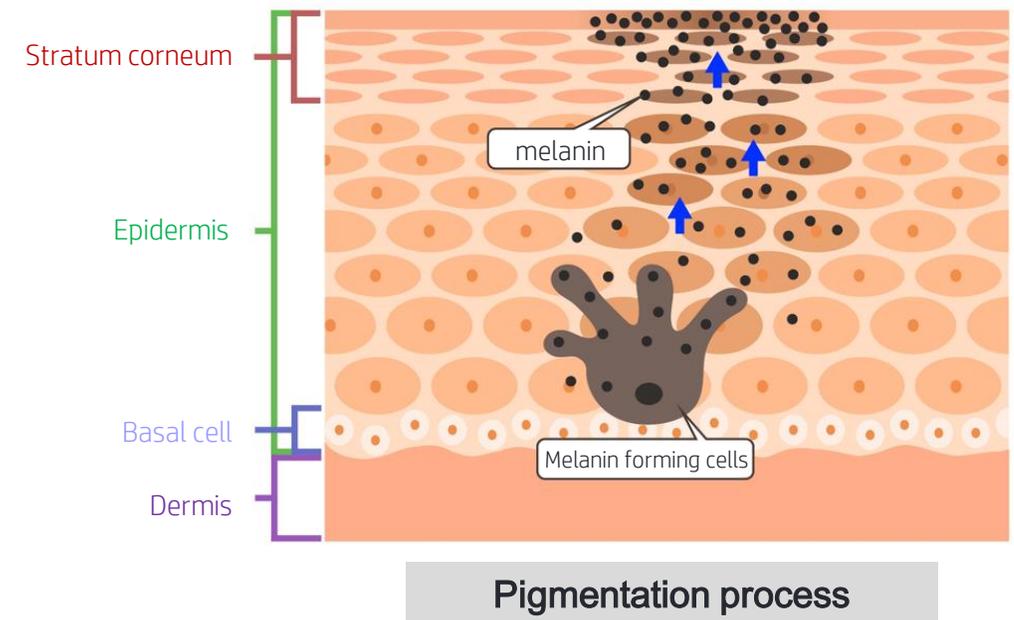
# Cause of skin pigmentation



"Melanin" has the effect of determining skin tone and protecting the skin, but it also has the effect of causing pigmentation phenomena such as melasma and stains.

Melanin is a dark-brown pigment located in the basal layer of the epidermis. It is produced by Melanosome cells in Melanocytes, and the production volume increases with factors such as ultraviolet light, hormonal imbalance, and inflammation. The melanin produced in the melanin forming cells will move to the surrounding keratinocytes, and the keratinocytes that have obtained melanin will move to the stratum corneum and fall off according to the skin's metabolic cycle. Therefore, the tanned skin in summer can return to its original complexion.

The metabolic cycle of normal skin is 28 days. However, pigmented skin such as melasma and pigmentation is damaged skin, so the metabolic cycle is longer than normal skin. Even if the keratin fell off, the pigmentation phenomenon does not disappear because of the continuous damage on the skin barrier. The keratinocytes in the basal layer cannot function and are replaced by melanin-forming cells, resulting in more melanin-forming cells than normal skin. As the number of melanin-forming cells increases, the amount of melanin produced also increases, and keratinocytes contain more melanin which causes pigmentation.

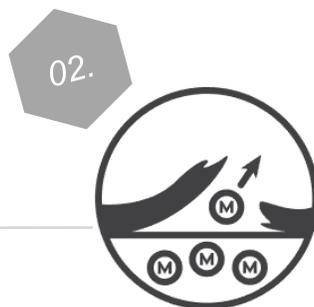


# Three causes of skin pigmentation



Ultraviolet rays

Sunlight and other ultraviolet rays can damage the skin. The production of melanin is to protect the skin tissue and prevent its damage. However, excessive exposure to ultraviolet rays can cause pigmentation such as chloasma and stains.



Hormonal imbalance

Melasma is also called mask of pregnancy. The reason is that melanin-forming cells that dominate melanin production are affected by the increased estrogen and progesterone after pregnancy. After the hormonal imbalance stops, the chloasma will be relieved, but if you do not pay attention to the skin management, the pigmentation will appear again.

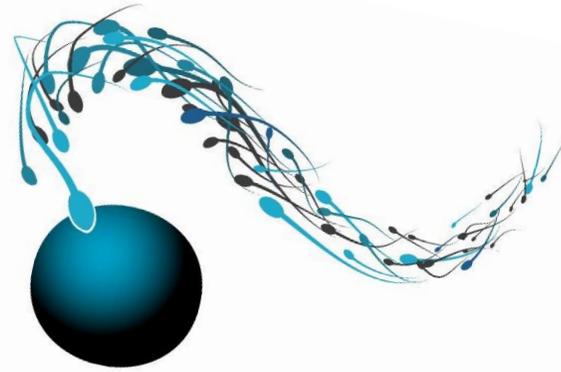


Inflammation

When inflammatory reactions such as acne, eczema, etc. occur, red marks will be left where the stratum corneum or scab falls off, and the pigmentation will increase over time and become brown colour. Pigmentation after inflammation is an overreaction of melanin forming cells in the skin, and an abnormal distribution or increase of melanin occur in the wound tissue.

FILLOSHINE GFP PG 10.5

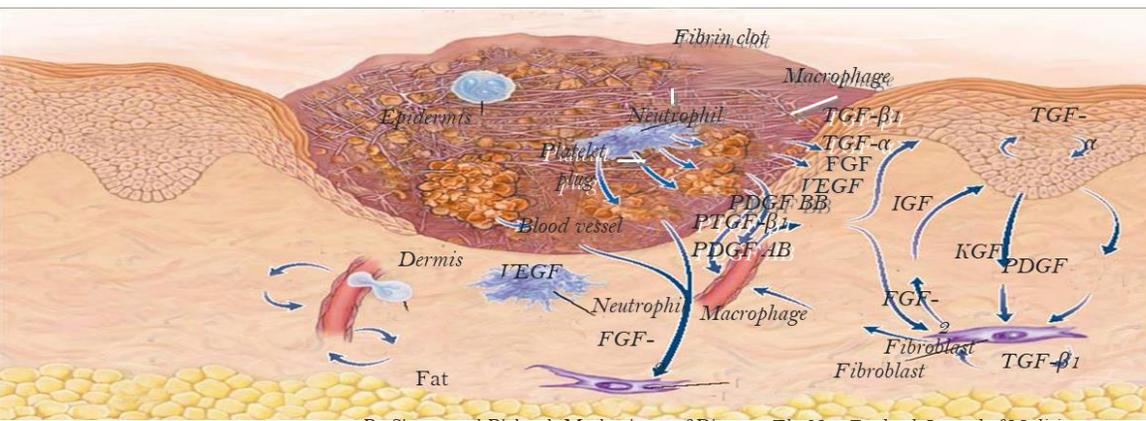
# Core Technology & Mechanism Intocell- Growth Factors



When there's a wound on the skin, TGF-β1, FGF, IGF, KGF and other proteins are secreted around it to quickly restore the wound. The similarity of the secreted proteins is that they all carry the growth factor (abbreviation GF). The growth factor (a type of protein) is involved in various cell physiological phenomena including regulation of cell growth, differentiation, regeneration, and healing. From these effects, growth factors are applied to cosmeceuticals.

With the aging of human skin and pathological damage, the ability of human skin to produce multiple growth factors decreases. The core principle of cosmeceuticals and biological cosmetics is to continuously supply the skin with essential growth factors besides the ones produced by human body. This prevents aging and maintains a healthy condition with skin vitality.

In Filloshine products, the prescribed growth factor is IntoCell growth factor with better penetration ability. IntoCell growth factor is different from the previous growth factors, it is the core technology ingredient listed for the first time in the International Cosmetic Ingredient Dictionary (ICID) by the Filloshine manufacturing plant. The research and development of IntoCell growth factor focus on the sperm passing through the egg membrane when the sperm and egg are fertilized. Smaller peptides are attached to the protein existing in the human body to make it easier for the protein to penetrate into the skin. Compared with previous growth factors, intracellular growth factors possess good skin cell permeability. It has a synergistic effect with growth factors such as fibroblast growth factor, epidermal growth factor, keratinocyte growth factor, etc., regulating skin function, restoring normal skin regeneration cycle.



By Singer and Richard, Mechanisms of Disease. *The New England Journal of Medicine* 1999



Published academic papers on growth factors



Patent No.10-1813560  
Skin physiologically active external agent composition through cell growth factor

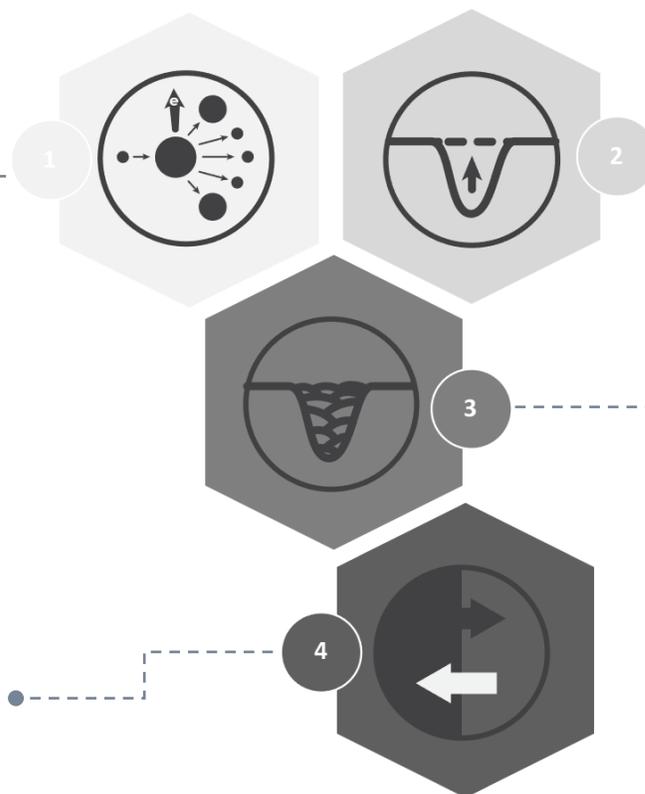
# Target Ingredient & Effects



## Promote skin regeneration and inhibit pigmentation

### **IntoCell IGF-1**

It is an insulin-like growth factor that promotes the regeneration of skin cells such as fibroblasts and keratinocytes. It also hinders the tyrosinase activity that produces pigment to inhibit pigmentation. (Used with EGF will produce a synergistic effect and promote the production of proteins that make up the skin cell wall (ECM). The effect is 2 to 3 times more than when it is used alone.)



## Anti-aging, wound regeneration

### **NP1/2/3**

Through the interaction of neuropeptide that stimulates the response of aging skin cells and the tripeptide that stimulates skin cell growth and physiological activity, it can effectively resist aging and wrinkle, induce the skin regeneration of damaged skin, and maintain glow of the skin.

## Strengthen skin tension , regulate regeneration cycle

### **IntoCell PLUS-EGF**

It is an epidermal growth factor that promotes the proliferation of epithelial cells to maintain a healthy skin regeneration cycle. It also strengthens skin tension, thereby restoring skin health, improving skin texture and complexion.

## Improve skin tone and strengthen barrier

### **Oligopeptide-1**

It has a better procollagen synthesis effect than vitamins and retinol, thereby improving skin dullness, promoting the production of keratinocytes and dermal fibroblasts, strengthening skin elasticity and skin barrier to create the healthy skin.

FILLOSHINE GFP PG 10.5

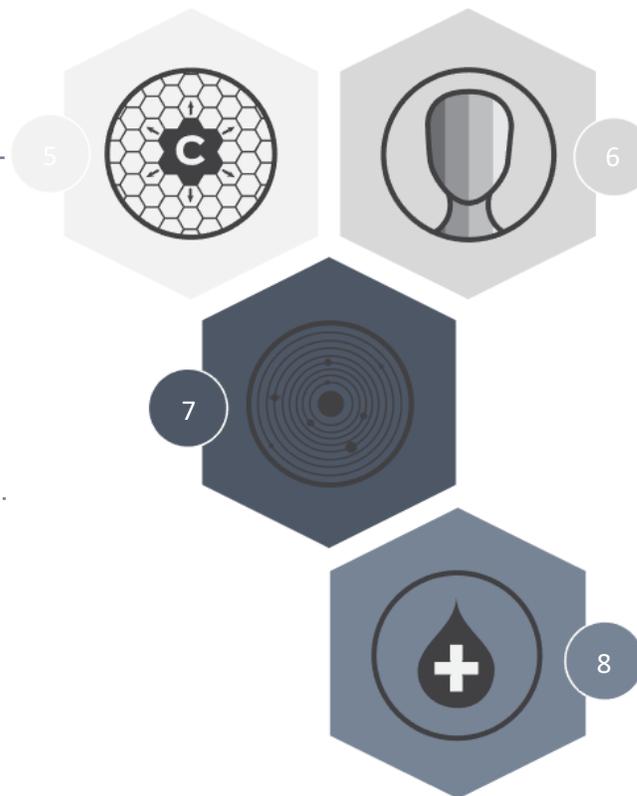
# Target Ingredient & Effects

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## Protect the skin and inhibit the formation of wrinkles

### AHP

Using small molecular peptides with similar effects to botulinum to regulate the signal transmission process of nerve cells connected to wrinkle muscles, thereby delaying wrinkle formation, promoting the production of collagen and elastic fibers necessary for skin health, protecting the skin and enhancing skin elasticity.



## Prevent aging and whiten

### Glutathione

It is a powerful anti-oxidant ingredient which effectively resists aging. It inhibits and removes reactive oxygen species. The sulfonate in glutamic acid helps skin whitening.

## Enhance elasticity and maintain glowing complexion

### Collagenpeptide

The peptide structure is the most similar one to the collagen that constitutes the human body. It promotes the production of collagen in the body, enhances skin elasticity, prevents wrinkles, and maintains a bright complexion.

## Restore healthy skin and promote regeneration

### PDRN

The tissue regeneration components extracted from the DNA of salmon newborn cells are combined with human cell receptors to create capillaries and restore tissues at the injured site. Stem cells endocrine fibroblasts to produce collagen, promote skin cell regeneration, restore skin health, and maintain a fair and clear skin tone.

FILLOSHINE GFP PG 10.5

# Product Effects



## 01

### Inhibit melanin synthesis, brighten skin tone

- With powerful antioxidants, it helps to eliminate skin stress and inhibit melanin synthesis
- Ingredients such as peptides and growth factors normalize the skin condition and help restore a healthy and bright complexion

## 02

### Promote regeneration and improve elasticity

- Improve cell repair power and help promote skin regeneration
- Promote the synthesis of keratinocytes, fibroblasts and collagen, helping improve skin elasticity and prevent aging

## 03

### Moisturizing

- Natural moisturizing factors provide sufficient moisture to the skin, helping improve the internal moisturizing ability of the skin
- Prevent skin aging and wrinkles

## 04

### Maintain healthy skin

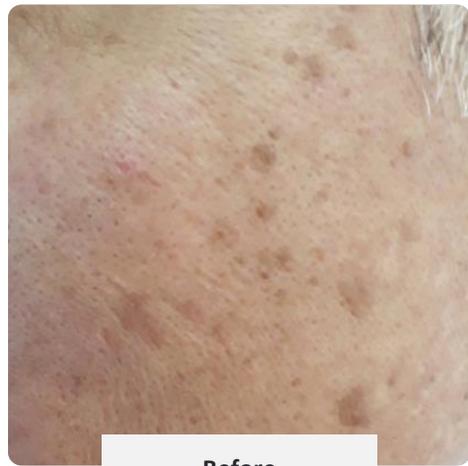
- Provides moisture and nutrients to the deep layers of the skin, helping to maintain healthy cells
- The biologically active ingredients present in the skin act on the epidermis and dermis, helps to improve skin circulation and maintain healthy skin

FILLOSHINE GFP PG 10.5

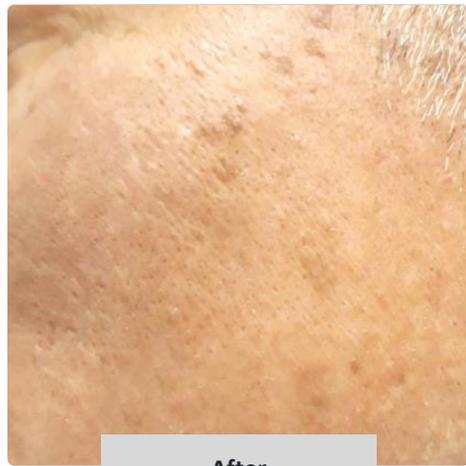
# Before & After



Pigmentation before/after use



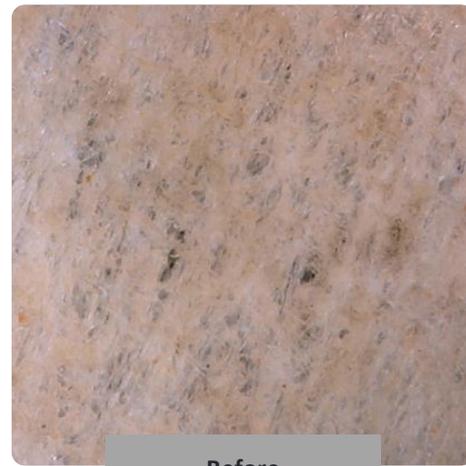
Before



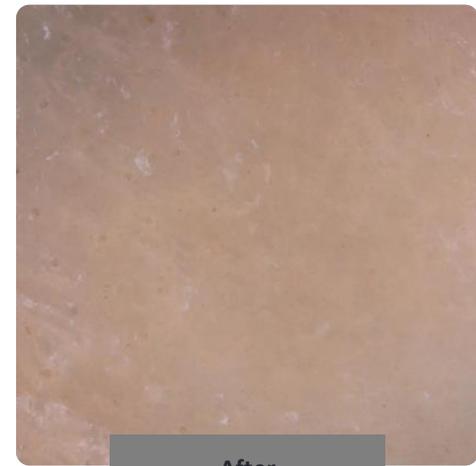
After

After 4 weeks of use  
Pigmentation is improved

Pigmentation before/after use, magnified 50 times



Before



After

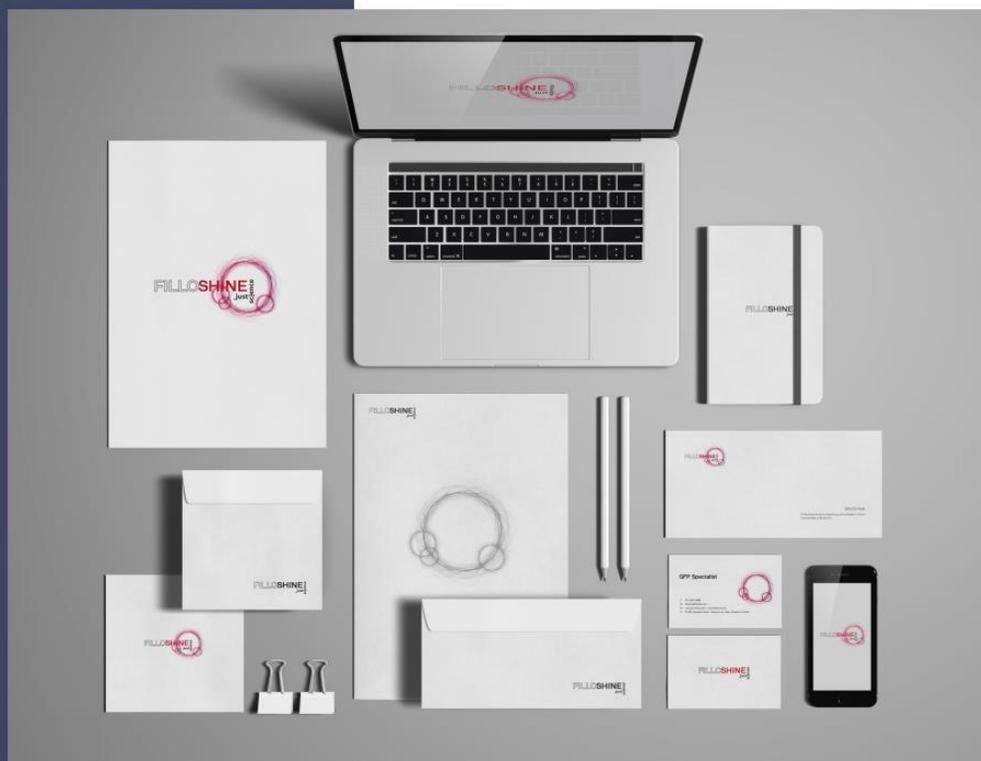
After 4 weeks of use  
By magnifying the picture 50 times,  
you can see that the pigmentation has been improved

FILLOSHINE GFP PG 10.5

# Filloshine Product Authentication Guide



WELCOME TO JOIN US  
'FILLOSHINE'



## Thank you for choosing Filloshine

FILLOSHINE is a brand which is always pursuing innovation that breaks the status quo and delivers beauty through continuous anti-aging research and plant cells development. We strive to enhance the values of life standard through beauty. Our mission is to ensure the complete satisfaction of our clients and promote maximum efficiency by manufacturing high performance cosmetics. We aim to be recognized by constantly attaining an equilibrium between beauty and well-being. We hereby certify that your fine quality products have been purchased from a legitimate source and guaranteed by scanning the authentication QR code. Kindly write down the Certificate No. on this card and present the card to our dealers upon request.



ANDROID APP ON  
Google play  
Available on the iPhone  
App Store

Download the  
Authentication App

**Option1.** Scan the QR code available on the box

**Option2.** Install "HiddenTag" from App Store / Google Play Store



User guide Step 1

Scratch to uncover the label above the QR code



User guide step2

Launch the App and get it verified within 3 seconds

**THANK YOU**