



EXOSOME Technology

GFCCELL™

EXO VITAL KIT

GFCCELL Exo Complex 97%
A special booster ampoule
to energize the skin

Capacity and configuration :
(180mg + 4ml) * 5 sets = 1box

[1st agent] 180mg + [2nd agent] 4ml
1set (a dose of medicine)
total 5 doses configuration
Exosome content : 970,000 ppm

GFCCELL™ EXO VITAL KIT



How to use

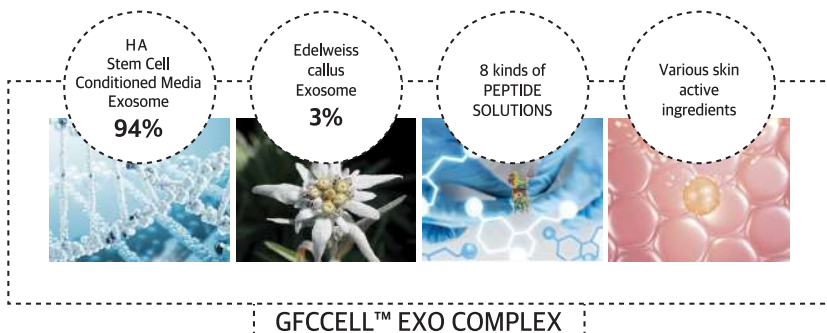
- Mix the 2nd agent liquid solution in the 1st freeze dry powder
- After completely dissolving the 1st agent freeze dry powder, leave it still for up to 3~5 minutes to remove air bubbles before using it
- Use mixture dissolved freeze dry powder within a maximum of 3 hours to ensure the stability of product

Subject of advice

- GFCCELL™ EXO VITAL is recommended to be used at least 3 times, on average 5 times
- GFCCELL™ EXO VITAL 1 set mixed with 1st and 2nd agent is used once per person
- To maintain the efficacy of content, it is recommended to store it in refrigerator condition below 5℃

Recommend this type of skin!

- Skin with weakened self-sustainability
- Skin that is troubled by uneven skin condition such as pores and facial-redness
- Skin troubled by acne scars
- Thin and sensitive skin due to congenital, environmental reason or reason of frequent procedures
- Skin that is beginning to show signs of aging



Most skin friendly and efficient biological skin booster
Reminding healthy skin condition's memory

GFCCELL™ EXO VITAL KIT

The solution to maximize synergy of GFCCELL™ EXO



GFCCELL™ EXO VITAL Pep8 SOLUTION

"Peptide activating solution that Exosome powder and active ingredients combine to maximize absorption and efficacy"

GFCCELL™ EXO VITAL Pep8 SOLUTION

[2nd agent]
Liquid solution



4ml x 5vials



Anti-Wrinkle

+ Acetyl Hexapeptide-8
+ Palmitoyl Tetrapeptide-7
+ Palmitoyl Tripeptide-1
+ Palmitoyl Pentapeptide-4



Whitening

+ Nona peptide-1



Skin-regenerating

+ Copper Tripeptide-1
+ Hexapeptide-9
+ Tripeptide

Combination of 8 kinds of peptides for anti-aging, anti-wrinkle and whitening effects
Care of firm elasticity with synergy of Exosome and peptide to the skin that start to age
Anti-oxidant effect UP by containing various skin active ingredients such as adenosine, collagen and panthenol

[Ingredients] Water, Butylene Glycol, Glycerin, Copper Tripeptide-1, Tripeptide-1, Acetyl Hexapeptide-8, Hexapeptide-9, Palmitoyl Pentapeptide-4, Palmitoyl Tetrapeptide-7, Palmitoyl Tripeptide-1, Nona peptide-1, Sodium Hyaluronate, Niacinamide, Adenosine, Collagen, Panthenol, Tranexamic Acid, Glutathione, Glucose, Sodium PCA, Sodium Lactate, Arginine, Aspartic Acid, PCA, Glycine, Alanine, Serine, Valine, Proline, Threonine, Isoleucine, Histidine, Phenylalanine, Caprylyl Glycol, 1,2-Hexanediol

GFCCELL™ EXO VITAL 9403 POWDER

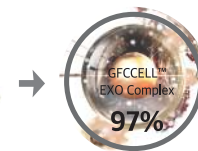
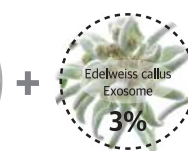
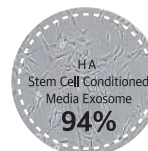
[1st agent]
Freeze dry Exosome powder



180mg x 5vials

GFCCELL™ EXO VITAL 9403 POWDER

"Freeze dry solution containing high-concentrated GFCCELL™ EXO complex 97%"



HA Stem Cell Conditioned Media Exosome

: Strong skin improvement effect by containing around 250 growth factors

Edelweiss callus Exosome : Skin anti-aging effect by inhibiting active oxygen

Take care of young and healthy skin with concentrated nutrition to skin that begins to age

[Ingredients] HA Stromal Cell Conditioned Media (94%), Leontopodium Alpinum Callus Extracellular Vesicles (3%), Mannitol



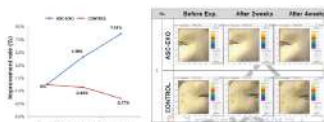
The memory of healthy skin,
experience a return of beauty.



LYOPHILIZED EXOSOMES

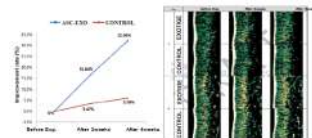
GFC CELL™

Anti-wrinkle improvement



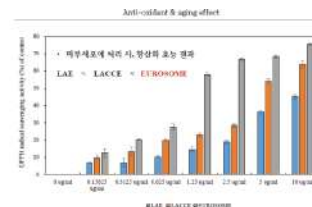
When applied to the skin for 4 weeks, the depth of wrinkles was reduced by 7.91%

Improvement of skin density



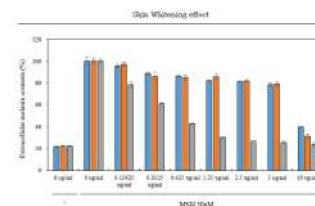
When applied to the skin for 4 weeks, it is confirmed that the skin density increased by 32.04%

Efficacy of anti-oxidant & anti-aging



- 1) LAE : Edelweiss extract
- 2) LACCE : Edelweiss callus conditioned media extract
- 3) EURO SOME : Edelweiss callus conditioned media extract-derived Exosome

Efficacy of skin whitening



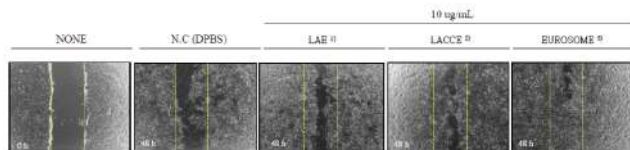
Result of whitening effect when treat skin cell

LAE < LACCE < EURO SOME

Efficacy of skin cell wound healing

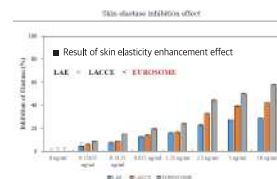
Confirm the efficacy in order of edelweiss extract(LAE) < edelweiss callus conditioned media extract(LACCE) < edelweiss callus conditioned media extract-derived Exosome(EURO SOME) when treat skin cell

Wound healing effect in Skin cells



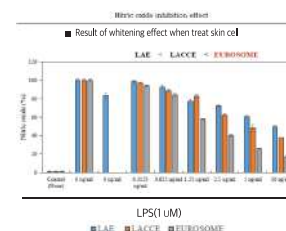
- 1) LAE : Edelweiss extract
- 2) LACCE : Edelweiss callus conditioned media extract
- 3) EURO SOME : Edelweiss callus conditioned media extract-derived Exosome

Efficacy of skin elasticity enhancement

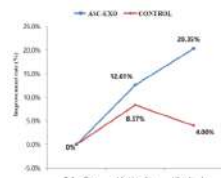


- 1) LAE : Edelweiss extract
- 2) LACCE : Edelweiss callus conditioned media extract
- 3) EURO SOME : Edelweiss callus conditioned media extract-derived Exosome

Efficacy of nitric oxide inhibition

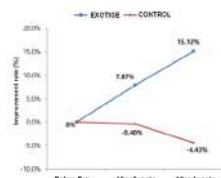


Increase skin moisture content



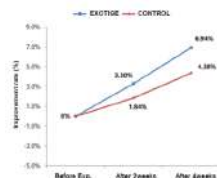
When applied to the skin for 4 weeks, it is confirmed that skin moisture content increased by 20.35%

Increase skin elasticity



When applied to the skin for 4 weeks, skin elasticity increased by 15.12%

Skin whitening effect



When applied to the skin for 4 weeks, confirmation of increased skin whitening effect through inhibition of melanin content (6.94%)

As a result of testing 13 subjects during the 4 weeks test period, the test area using the GFC Life Science "ASC-Exo & Skin solvent" sample showed a statistically significant ($p < 0.05$) improve in eye wrinkles, skin water content, skin elasticity, skin photo pigmentation and dermal density(anti-aging) compared to before the test. Compared to the placebo sample using comparison statistics between the groups, there was a statistically significant($p < 0.05$) difference between the two groups on all evaluation indexes. Therefore, it is judged that the test sample can help skin anti-aging. (There may be temporary changes and individual differences.)

Completed anti-aging efficacy evaluation test (KDRI-IRB-20879)

No bad skin from the beginning!

There is no bad skin since birth.

There is only a difference of change depending on the environment, lifestyle, and level of care that you've been exposed to, we are all born with healthy skin.

But our skin becomes thinner and weaker overall then it makes less elastic, dries, and wrinkles according to natural aging progress.

Frequent procedures such as plastic surgery, fillers, and Botox only make our skin becomes thinner and more sensitive. It doesn't restore natural health.

So, we found the answer for young and healthy skin through Human Adipose-derived Exosome and plant-derived Exosome that retain healthy genetic information.



GFCCELL™

EXO SCALP KIT

Pure Leuco Exo 97%

A premium treatment ampoule for strong and healthy hair and scalp.

Capacity and configuration
(180mg + 4m) * 5 set = 1box

[1st agent] 180mg + [2nd agent] 4m
1set (a dose of medicine)
total 5 doses configuration

Exosome content 970,000 ppm



GFCCELL™ EXO SCALP KIT



How to use

- Mix the 2nd agent liquid solution in the 1st freeze dry powder
- After completely dissolving the 1st agent freeze dry powder, leave it still for up to 3~5 minutes to remove air bubbles before using it
- Use mixture dissolved freeze dry powder within a maximum of 3 hours to ensure the stability of product

Subject of advice

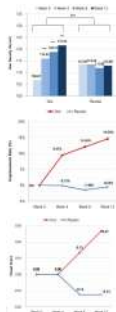
- GFCCELL™ EXO SCALP is recommended to be used at least 3 times, on average 5 times
- GFCCELL™ EXO SCALP 1 set mixed with 1st and 2nd agent is used once per person
- To maintain the efficacy of content, it is recommended to store it in refrigerator condition below 5°C

Recommend this type of skin!

- Dry and itchy scalp
- Scalp that easily becomes oily hair or easily occurs pimples and dandruff
- Scalp that hair becomes thin and increase number of drop
- Scalp that feels heat and becomes sensitive
- Scalp that is beginning to show signs of aging such as noticeable gray hair

Confirmation of functionality to relieve hair loss symptoms through human body application test

As a result of testing 31 research subjects suffering from hair loss during the 12-week test period, the areas where GFC Life Science Co., Ltd. "Leuco-Exo (1st agent) & Hair solvent (2nd agent)" were applied showed a statistically significant increase ($p < 0.05$) in the number of hairs (N/cm²), the main efficacy index, from Week 4 compared to before the test. On the other hand, the areas where the placebo sample had been applied showed no statistically significant changes ($p < 0.05$) in the number of hairs. In addition, the comparison and interaction analysis of the weekly changes in the number of hairs between the groups revealed statistically significant differences ($p < 0.05$). There were also statistically significant differences in changes in the number of hairs after Weeks 4, 8 and 12. Therefore, "Leuco-Exo (1st agent) & Hair solvent (2nd agent)" is judged to have alopecia prevention efficacy. In addition, no specific adverse reactions were observed in any of the study subjects during the test. (There may be temporary changes and individual differences.)



Premium anti-aging scalp booster starting from tip of head

Friendly and efficiently improving problematic scalp

GFCCELL™ EXO SCALP KIT

The solution to maximize synergy of LEUCO-EXO

Enhance Barrier

Enhance the barrier in the scalp to recover from healthy scalp

Turnover

Normalization of problematic scalp through cluster change of scalp resident flora

Self-sustainability

Prevention of hair loss and promotion of hair growth bring the abundant hair

GFCCELL™ EXO SCALP Pep9 SOLUTION

"Peptide activating solution that Exosome powder and active ingredients combine to maximize absorption and efficacy"

GFCCELL™ EXO SCALP Pep9 SOLUTION

[2nd agent]
Liquid solution

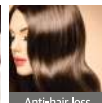


4ml x 5vials



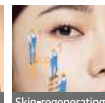
Anti-Wrinkle

+ Acetyl Hexapeptide-8
+ Palmitoyl Tetrapeptide-7
+ Palmitoyl Tripeptide-1
+ Palmitoyl Pentapeptide-4



Anti-hair loss

+ Nonapeptide-1
+ Alanine/Histidine/Lysine Polypeptide Copper HCL



Skin-regenerating

+ Copper Tripeptide-1
+ Hexapeptide-9
+ Tripeptide-1

Combination of 9 kinds of Peptides for anti-aging, anti-wrinkle, anti-hair loss and hair papilla cell proliferation

Care of rich hair and healthy scalp with synergy of Exosome and Peptides to the scalp
Anti-oxidant effect UP by containing various skin active ingredients such as sodium hyaluronate, caffeine and panthenol

[Ingredients] Water, Butylene Glycol, Glycerin, Copper Tripeptide-1, Tripeptide-1, Acetyl Hexapeptide-8, Hexapeptide-9, Palmitoyl Pentapeptide-4, Palmitoyl Tetrapeptide-7, Palmitoyl Tripeptide-1, Nonapeptide-1, Alanine/Histidine/Lysine Polypeptide Copper HCL, Sodium Hyaluronate, Caffeine, Panthenol, Tranexamic Acid, Glutathione, Glucose, Sodium PCA, Sodium Lactate, Arginine, Aspartic Acid, PCA, Glycine, Alanine, Serine, Valine, Proline, Threonine, Isoleucine, Histidine, Phenylalanine, Pentyleneglycol, Polyglyceryl-10 Laurate, Caprylyl Glycol, 1,2-Hexanediol

GFCCELL™ EXO SCALP 9700 POWDER

"Freeze dry solution containing high-concentration/purity of LEUCO-EXO 97%"

GFCCELL™ EXO SCALP 9700 POWDER

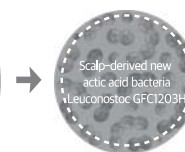
[1st agent]
Freeze dry Exosome powder



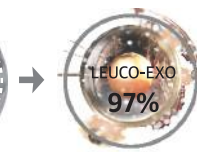
180mg x 5vials



Healthy scalp of 10s~20s



Scalp-derived new active acid bacteria (Leuconostoc GFC1203H)



LEUCO-EXO 97%

LEUCO-EXO : Exosome derived from new proprietary lactic acid bacteria from healthy scalp of 10s~20s(Leuconostoc GFC1203H)

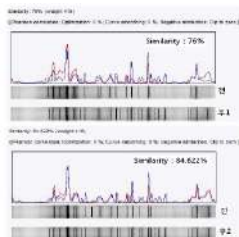
Improve to healthy scalp through cluster change of scalp resident flora

Hair growth effect through hair papilla cell proliferation and suppression of scalp inflammation through activation of anti-inflammation

[Ingredients] Leuconostoc/Radish Root Ferment Filtrate (97%), Mannitol

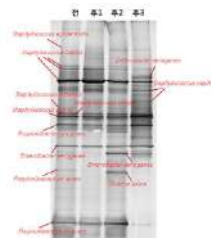


Diversity of strain



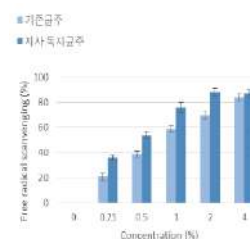
Confirm the **diversity of strains** when treat GFC's proprietary strain

Inhibition of harmful bacteria



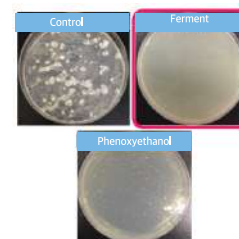
Confirm the **diversity of strains and inhibition of P. Acne** which is scalp inflammatory strain when treat GFC's proprietary strain

Anti-oxidant effect



The **anti-oxidant effect of GFC's proprietary strain is more excellent** compared to type strain

Dandruff inhibitory effect



Confirmation of **Malassezia furfur's inhibitory effect** known as the causative agent of dandruff and scalp inflammation

When treating scalp-derived lactic acid bacteria

Efficacy of hair papilla cell proliferation

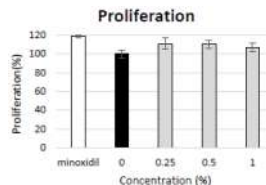


Hair papilla cell activation

Hair papilla cell : Cell located at the end of hair roots, "seeds of hair" that raise nutrients to hair

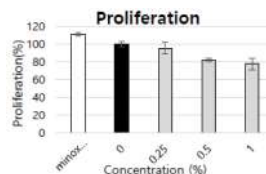


"Increase in the number of hair in growth period"



© **Increase more than 110%** of hair papilla cell when treat **0.25%** of **GFC's proprietary separated strain** conditioned media

(Increase 118% when treat 10uM of positive control group minoxidil)



© **No increase effect** when treat **type strain** conditioned media

(Increase 118% when treat 10uM of positive control group minoxidil)

When treating scalp-derived lactic acid bacteria

Efficacy of hair growth

Hair-related indicator

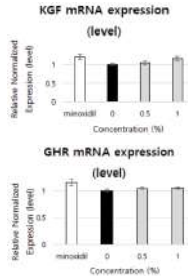
- * **KGF(FGF)** : Keratinocyte growth factor
- hair cycle factor group

-> Hair cycle controller that stimulate hair growth & induce growth

- * **GHR** : Growth hormone receptor
- growth factor group

-> Combining with growth hormone to induce hair growth

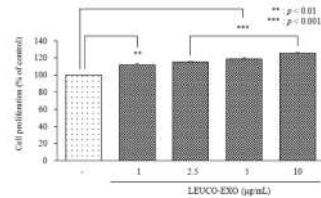
"Induce hair production"
by controlling hair-related genes



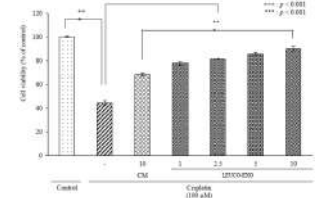
⊗ It is the maximum expression at 1% concentration of **GFC's proprietary separated strain** conditioned media, and KGF level **increases about 1.2 times**

⊗ It is the maximum expression at 1% concentration of **GFC's proprietary separated strain** conditioned media, and KGF level **increases about 1.2 times**

Efficacy of Promoting hair papilla cell proliferation



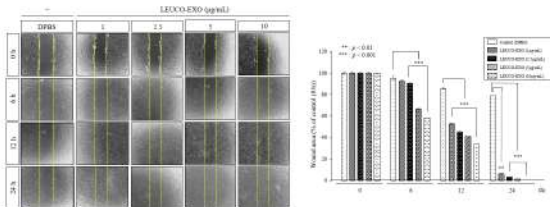
Efficacy of cell viability



* Cisplatin : Anti-cancer drugs, cytotoxicity-inducing substance

Efficacy of LEUCO-EXO isolated from scalp-derived lactic acid bacteria

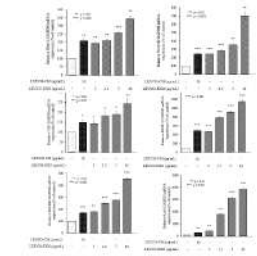
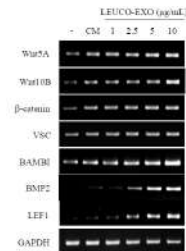
Wound healing effect by promoting ability to migrate hair papilla cell



Efficacy of LEUCO-EXO isolated from scalp-derived lactic acid bacteria

Efficacy of LEUCO-EXO isolated from scalp-derived lactic acid bacteria

Efficacy of control hair growth gene mechanism



The memory of healthy skin, experience a return of beauty.



GFCCELL™

LYOPHILIZED EXOSOMES

No bad skin from the beginning!

There is no bad skin since birth.

There is only a difference of change depending on the environment, lifestyle, and level of care that you've been exposed to, we are all born with healthy skin.

But our skin becomes thinner and weaker overall then it makes less elastic, dries, and wrinkles according to natural aging progress.

Frequent procedures such as plastic surgery, fillers, and Botox only make our skin becomes thinner and more sensitive. It doesn't restore natural health.

So, we found the answer for young and healthy skin through Human Adipose stem cell-derived Exosome and plant-derived Exosome that maintain healthy growth factors and genetic information

Acts quickly on the aging sign of skin
Restores solid strength and vitality to the skin

GFCCELL™

EXO COMPLEX

Clear skin
tone

Strong
moist

Elastic skin
without
wrinkle

Skin
regeneration

Shiny skin

Smooth skin
texture



The memory of healthy skin, experience a return of beauty.



GFCCELL™

LYOPHILIZED EXOSOMES

Skin aging, starting from the scalp!

Where do wrinkles start?

From the top of your head, which is the top part of your body due to gravity, Skin aging begins and connects downward to create wrinkles.

When the scalp on the frontal lobe ages, the wrinkles on the forehead, When the occipital lobe is aged, wrinkles form on the back of the neck.

So, when your scalp gets old, so does your face. It's covered with hair, but the scalp is also skin.

Therefore, there are many types of scalp like face skin.

Dryness, oily skin, skin trouble, and sensitivity.

Each person suffers from different concerns and symptoms.

It overlooks the importance of the scalp, so it cannot find a fundamental solution.

So, we isolated the exosomes from lactobacillus found in the young and healthy scalp, and found the fundamental answer to scalp health.

Solves the root cause of the problematic scalp
And restores firmness and abundant hair

GFCCELL™

EXO COMPLEX

Relieve scalp
inflammation

Prevention
of dry
scalp

Healthy
scalp
barrier

Alleviate
hair loss
symptoms

Hair
strengthening

Promote
hair growth

