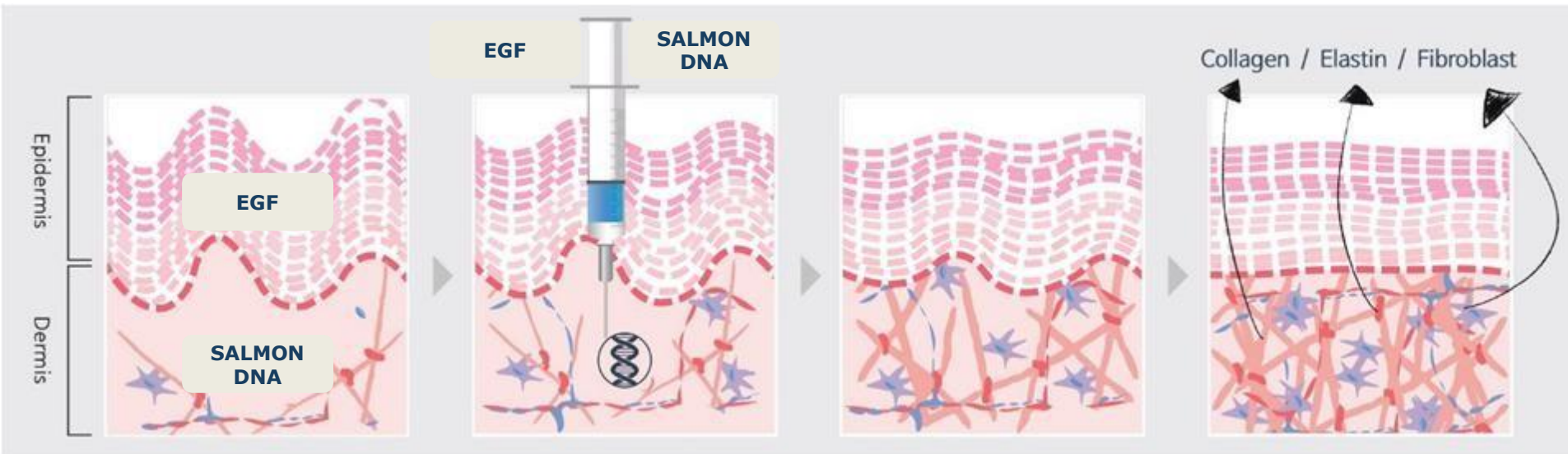


GLUTANEX-GLOW

How Does Glutanex Glow Work?

Glutanex Glow is a skin rejuvenating solution which has progressive skin rejuvenation and age reversal effects. It delivers Polydeoxynucleotide and multi peptides into the skin cells, stimulating and accelerating cell repair and regeneration of new skin cells, thus strengthening and thickening the skin structure.



- **Activation** function in epidermis— EGF, KGF...
- **Activation** in the dermis— Salmon DNA, FGF...

Promoting fibroblast
Collagen production
Elastin formation

- Epidermal regeneration
- Creation of ECM
(Regeneration)

GLUTANEX-GLOW

KEY INGREDIENTS OF GLUTANEX GLOW, PDRN : Polydeoxyribonucleotide

It is a chain Polydeoxyribonucleotide(PDRN) DNA harnessed from Salmon DNA extract and possesses multiple benefits for a natural skin rejuvenator to lift the skin with age-reversal and youth-generating effects on the skin. The Salmon DNA extracts are compatible to human skin and is a break through novel ingredient that is able to rejuvenate the skin and takes years off your face.

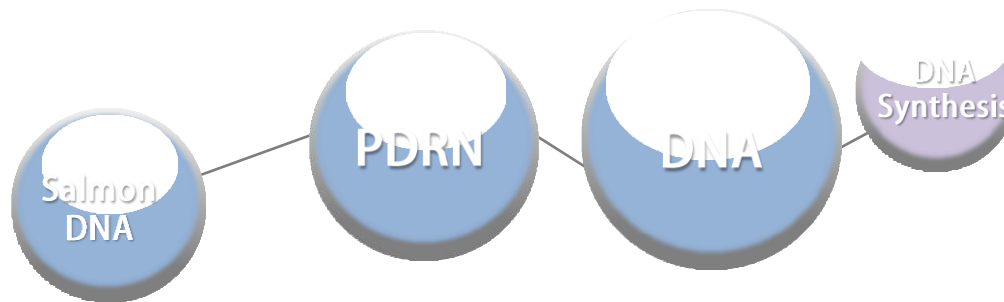
After the age of 20, one percent less of collagen is produced in the dermis each year.

The collagen and elastin fibers become thicker, more clumped, and looser, resulting in inelastic and brittle skin and eventually in wrinkling and sagging.

PDRN is the key ingredient to help cell growth and it has anti-inflammatory effect from combination with specific cells .

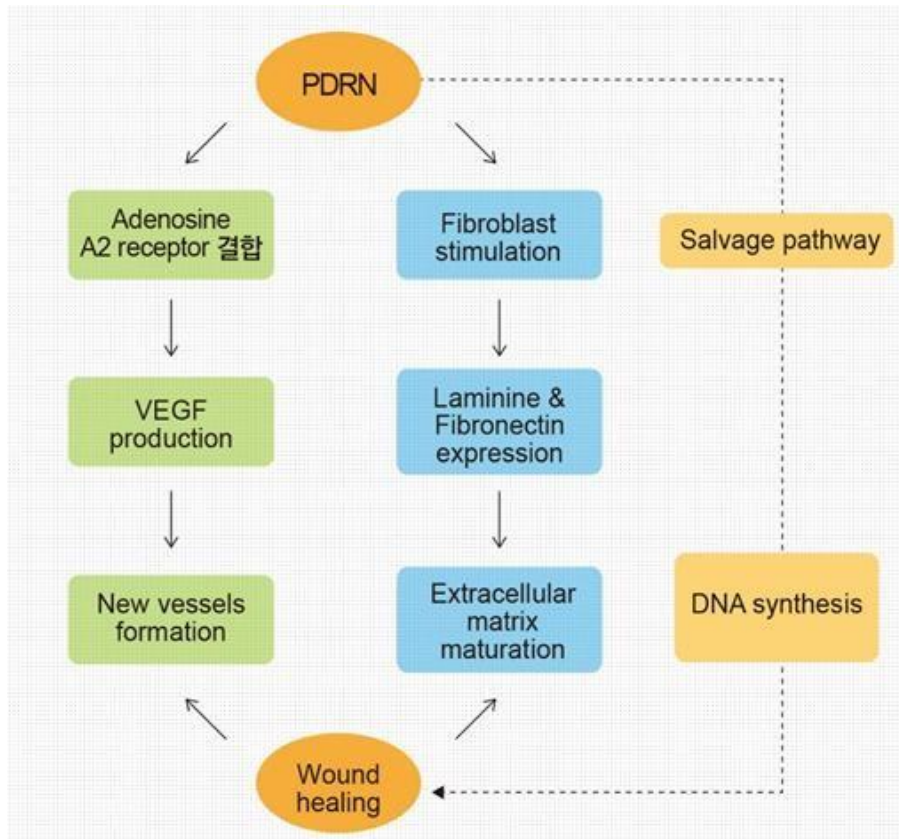
It increases the density of dermis tissues and is excellent in cell regeneration as well.

* In the study, researchers asked male subjects to rub "Salmon DNA" onto their skin for 12 weeks. By week four, skin elasticity was "improved significantly," water content had increased, and more the 90 percent of the subjects "felt improving roughness of the skin." Plus, it promoted the production of Hyaluronic acid.



GLUTANEX-GLOW

KEY INGREDIENTS OF GLUTANEX GLOW, PDRN : Polydeoxyribonucleotide



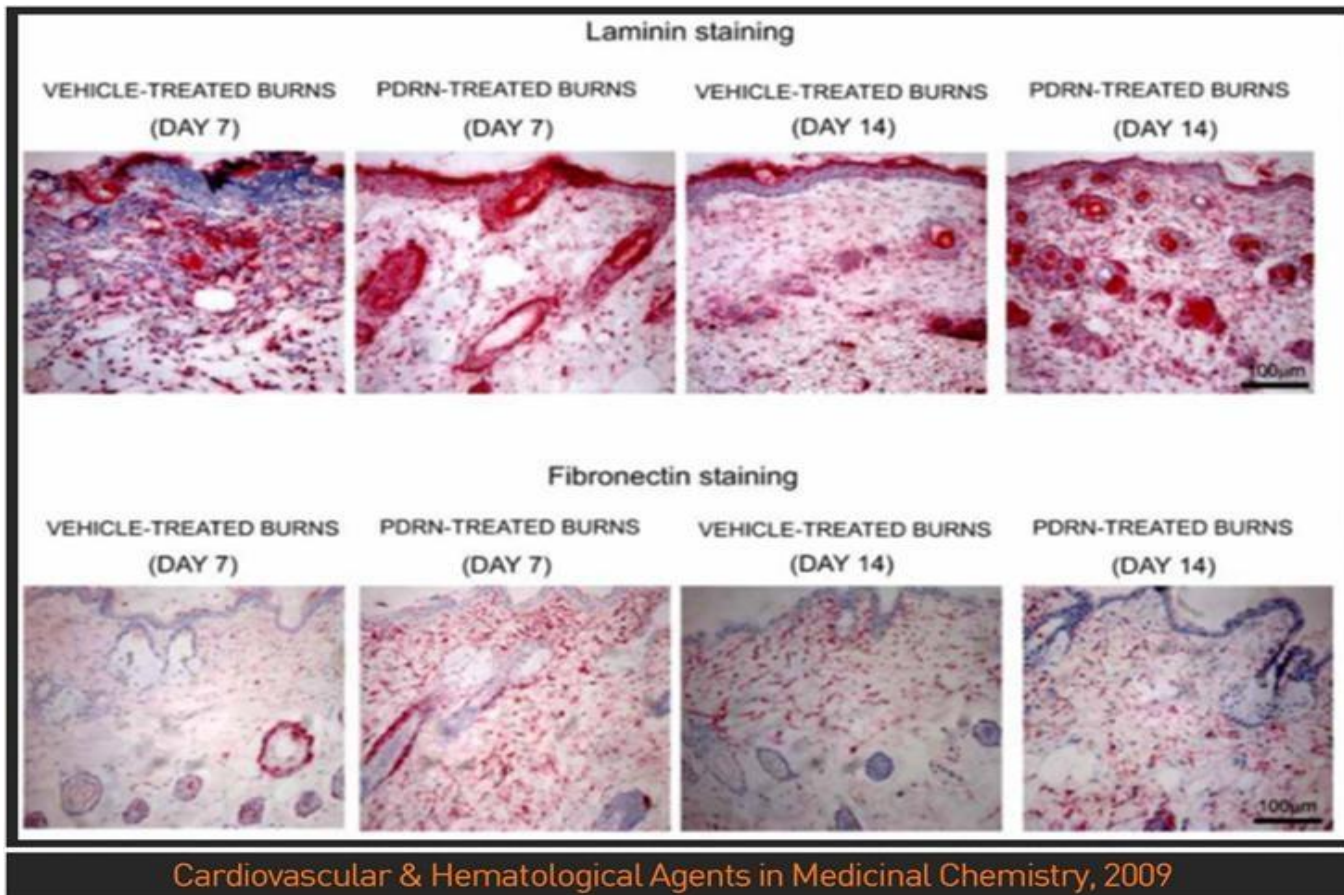
■ PDRN DNA Synthesis

- ✓ Very small amount in a new tissue.
- ✓ Developed as a medicine for an initial burn and a wound.
- ✓ By facilitating the cell regeneration from the DNA stage, interaction with fibroblast and rejuvenation of the damaged skin via biosynthesis of collagen.
- ✓ Increased tissue regeneration ratio when used in combination with skin graft and fat graft.
- ✓ Fast and excellent cell regeneration and skin rejuvenation effects.
- ✓ Recovery of the natural and resilient skin.
- ✓ Improvement of a swollen face.
- ✓ KFDA-approved stable skin treatment.
- ✓ Painless with no stimulation.

GLUTANEX-GLOW

■ PDRN injection :

Burn Wound healing effect Formation of New vessels and tissue regeneration



GLUTANEX-GLOW

■ PDRN _ Wound Healing result



Current Medical Research and Opinion 2001

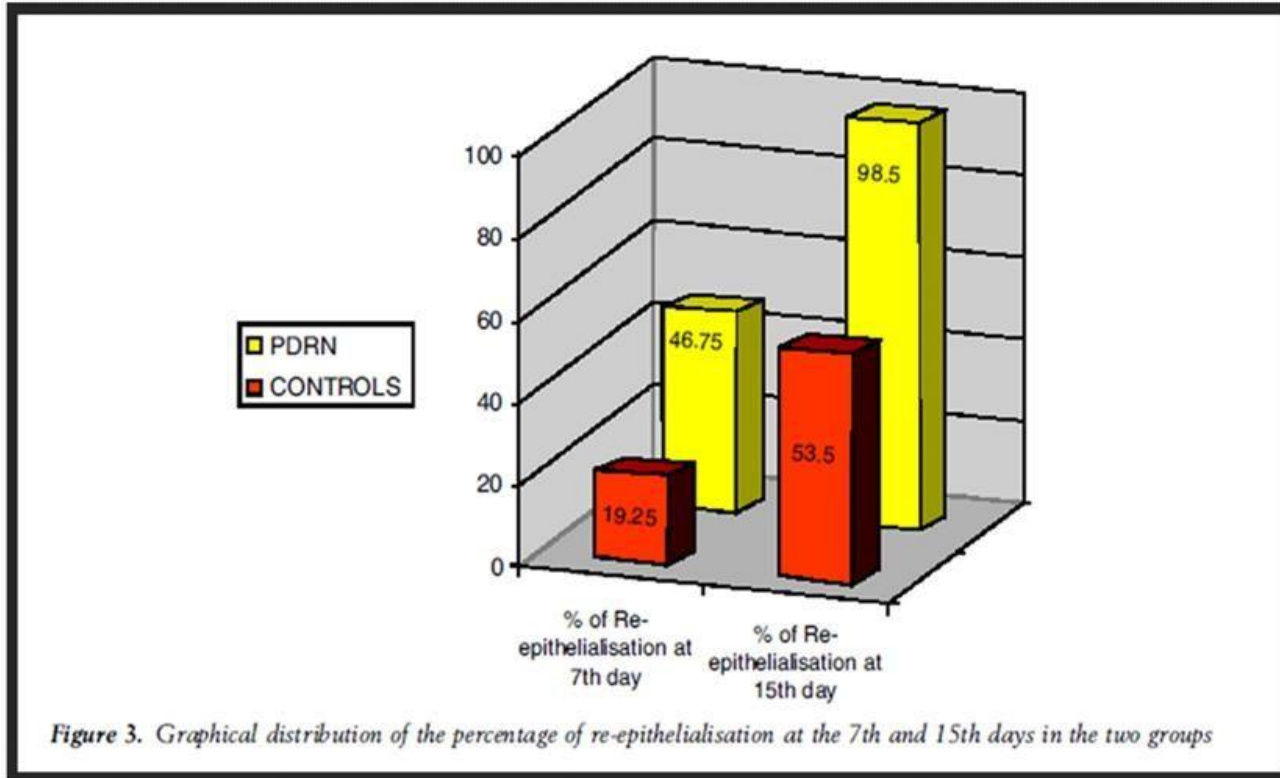
Curr MedRes Opin. 2001;17(2):128-31

Polydeoxyribonucleotide is derived from salmon sperm through an extraction process.

The compounds are able to stimulate Vascular Endothelial Growth Factors and certain receptors in the body that trigger the creation of new artery formation, improves blood flow, and reduces inflammation. Most importantly, PDRN provides the nucleotides necessary for cell regeneration.

GLUTANEX-GLOW

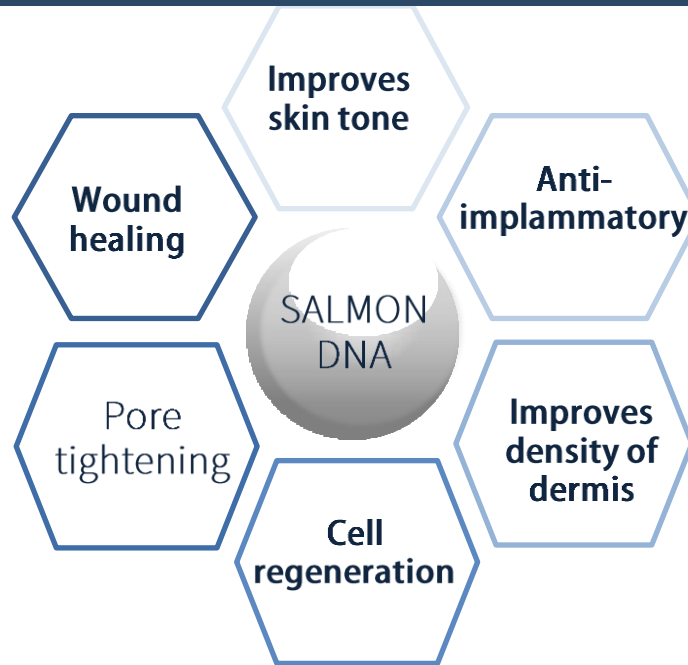
■ PDRN _ Wound Healing result



PDRN in the healing of skin graft donor sites

Current Medical Research Opinion 2004

GLUTANEX-GLOW

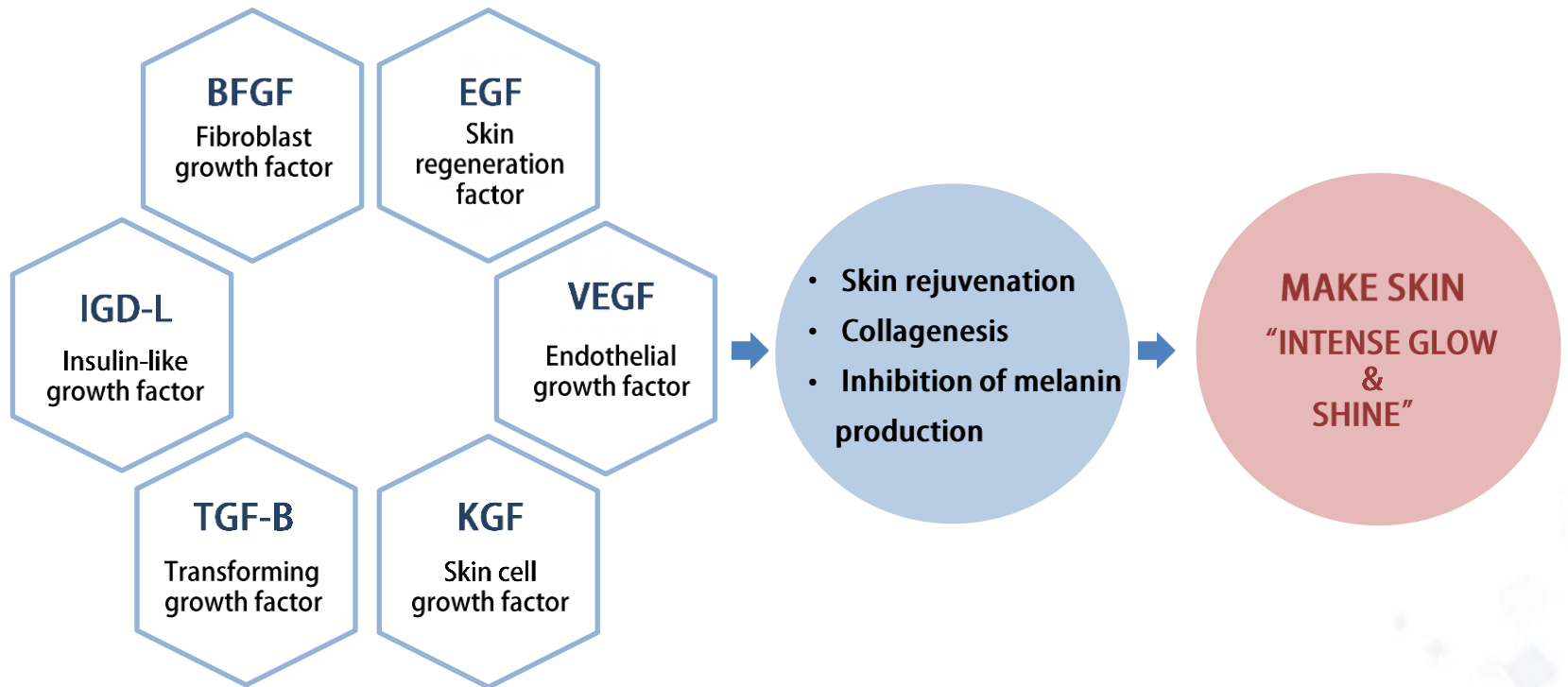


■ BENEFITS OF SALMON DNA (PDRN:Polydeoxyribonucleotide)

- ✓ It is excellent in skin regeneration by acting directly on skin cell synthesis
- ✓ Skin whitening and moisturizing, as well scar and skin damage improvement.
- ✓ It helps to recover scars quickly and relieves swelling, heat, and pain by anti-inflammatory action.
- ✓ It is rich in vitamin E and astaxanthin which improves skin tone and minimizes skin pigmentation.
- ✓ Safe substance that doesn't have side effect on human body

GLUTANEX-GLOW

KEY INGREDIENTS OF GLUTANEX GLOW, MULTI PEPTIDES



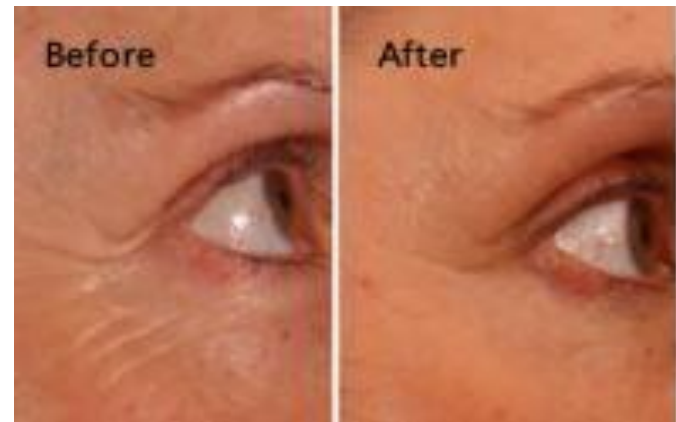
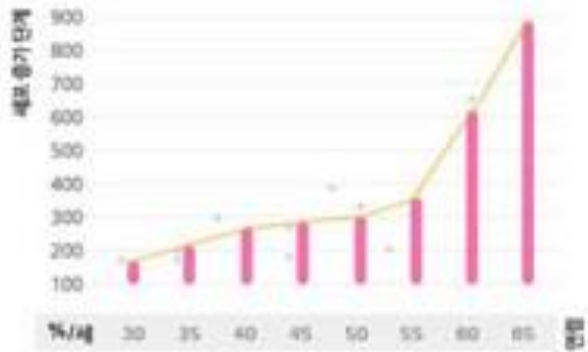
GLUTANEX-GLOW

KEY INGREDIENTS OF GLUTANEX GLOW, MULTI PEPTIDES

polypeptides has various types with various functions and it is involved in the intercellular communication. In addition, they are essential for cell proliferation, growth and development of organisms, and they are involved in the epidermis and dermis.

* Growth Factors(Polypeptides) are involved in cell differentiation and are essential to normal cell cycle, and are thus vital elements in the life of animals from conception to death. Growth Factors mediate fetal development, play a role in maintenance and repair of tissues, stimulate production of blood cells.

After EGF was used for 60 days,



GLUTANEX-GLOW

KEY INGREDIENTS OF GLUTANEX GLOW, MULTI PEPTIDES

EGF ■ Epidermal Growth Factor
rh-Oligonentide-1

FGF ■ Fibroblast Growth Factor
ch-Polynentide-1

IGF ■ Insulin Growth Factor
rh-Oligonentide-2

KGF ■ Keratinocyte Growth Factor
rh-Polynentide-3

VEGF ■ Vascular Endothelial Growth Factor
ch-Polynentide-0

TRX ■ Thioredoxin

GLUTANEX-GLOW

Glutanex Glow Functional Ingredients

■ Glutathione

Glutathione (GSH) is an important antioxidant in plants, animals, fungi, and some bacteria and archaea. Glutathione is capable of preventing damage to important cellular components caused by reactive oxygen species such as free radicals, peroxides, lipid peroxides, and heavy metals.

Glutathione plays an important role in preventing oxidative damage to the skin.[69] In addition to its many recognized biological functions, glutathione has also been associated with skin lightening ability.[70] The role of glutathione as a skin whitener was discovered as a side effect of large doses of glutathione.[71] Glutathione utilizes different mechanisms to exert its action as a skin whitening agent at various levels of melanogenesis. It inhibits melanin synthesis by means of stopping the neurotransmitter precursor L-DOPA's ability to interact with tyrosinase in the process of melanin production. Melanin is the substance that gives the skin its color, so it follows that by preventing melanin from developing, Glutathione whitening brings the skin back to its purest, fairest tone. It is often said that one's health is reflected in the condition of his or her skin, and that is notably true when it comes to this method of skin whitening. Glutathione benefits the skin by boosting overall health. Since it is an antioxidant, it neutralizes and eliminates the free radicals that damage the skin at the cellular level to cause aging and discoloration.

GLUTANEX-GLOW

Glutanex Glow Functional Ingredients

■ Adenosine [Anti-wrinkle effect](#)

Yeast-derived ingredient that functions as a good soothing and skin-restoring agent. Adenosine has proven anti-wrinkle benefits due to its ability to energize skin's surface so it looks smoother and younger. Naturally present throughout the body, adenosine is a beneficial ingredient all skin types can use.



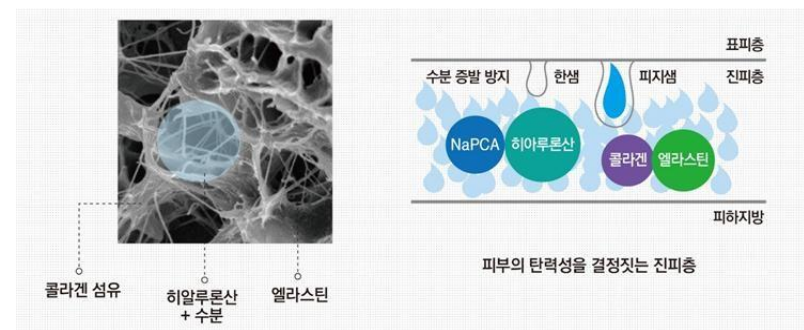
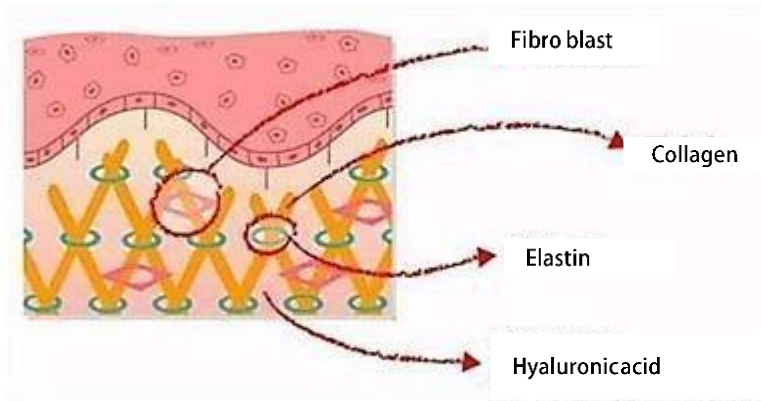
GLUTANEX-GLOW

Glutanex Glow Functional Ingredients

■ Hyaluronic Acid

Component of skin tissue. Synthetic variations are used in skincare products to function as a superior skin-replenishing ingredient. Hyaluronic acid has restorative abilities and can boost skin's moisture content, soothe, and defend against moisture loss. It is capable of holding up to 1,000 times its own weight in water, making it an optimal hydrator for all skin types.

In addition to its function as a superior skin-restoring ingredient, hyaluronic acid also provides an antioxidant defense against environmental assault.



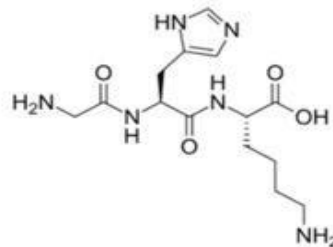
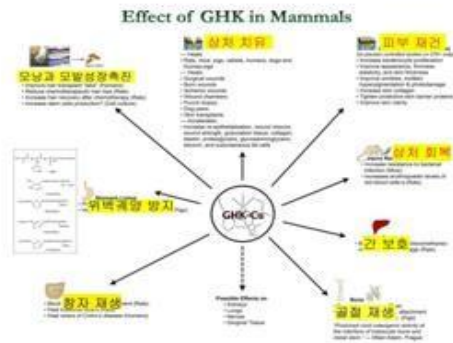
GLUTANEX-GLOW

Glutanex Glow Functional Ingredients

■ Copper Tripeptide-1

Rejuvenating Copper peptide is perfect for aging or mature complexions. Copper is a natural peptide that renews the skin's look. Copper helps dead skin cells turn over faster giving way to new, rejuvenated, youthful skin. A naturally occurring peptide, copper gives your skin's vitality a boost. It is a micro-nutrient that improves your skin's appearance, diminishes the appearance of wrinkles and tightens.

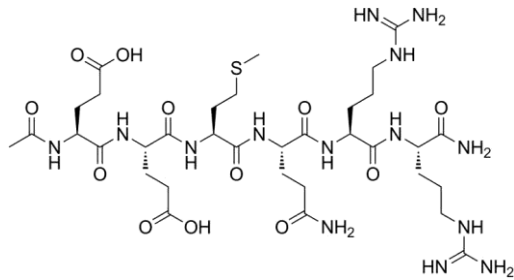
*these peptides were investigated for their benefit in wound healing from burn scars.
Patented ingredient in **skin and hair regeneration***



GLUTANEX-GLOW

Glutanex Glow Functional Ingredients

■ Acetyl Hexapeptide-8



Acetyl Hexapeptide-8 (or-3)
Argireline

Commonly referred to as “Botox in a jar” because it’s believed to inhibit the release of neurotransmitters and relax the facial muscles- thus reducing expression lines and wrinkles. A study published in the International Journal of Cosmetic Science did show a 10% concentration of Argireline to reduce wrinkles by 30% over a 30-day period.

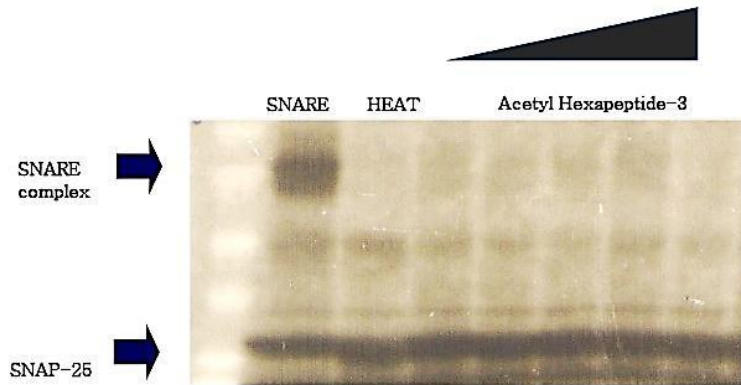
Promote lifting effect and increase elasticity

GLUTANEX-GLOW

■ Acetyl Hexapeptide-8

AHP-8 is a brand name of acetyl hexapeptide-8 produced by A & PEP. AHP-8 regulates the secretion of neurotransmitters into the muscles to prevent wrinkles caused by repetitive muscle movements. Therefore, it brings anti-aging effect.

It is a non-toxic substance that became a substitute for Botulinum-toxin that might cause allergic reactions, facial paralysis.



SNARE complex formation Obstructed by Acetyl Hexapeptide-8

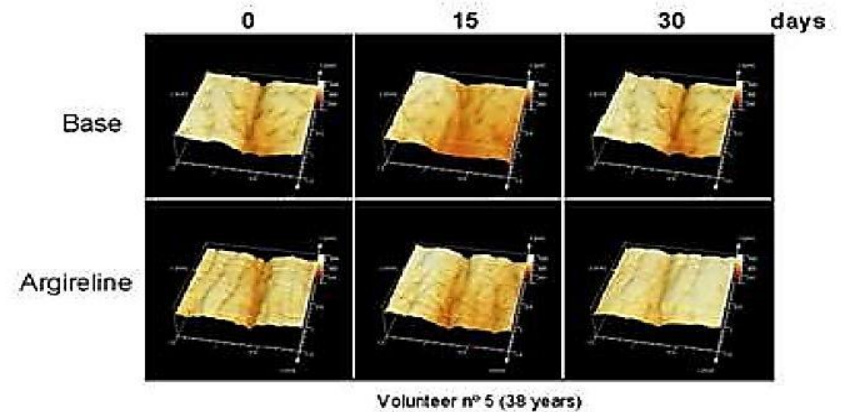


그림3. Acetyl hexapeptide-8의 주름개선 효과
(International Journal of Cosmetic Science 2002 24:303)