



The Bio Regulator Company

## Youth Gems

Cosmetics with peptides and gingseng extract

**Beauty products** **DAY CREAM** with peptides and ginseng extract

**line** **NIGHT CREAM** with peptides and ginseng extract

**YOUTH GEMS** **EYELID GEL** with peptides and ginseng extract

**cosmetics** **FACIAL MASK** with peptides and ginseng extract

**with peptides** **SERUM** with peptides and ginseng extract

**and ginseng** **BODY MILK** with peptides and ginseng extract

**Extract** **TONIC** with peptides and ginseng extract

Adverse environmental factors (ecological, climatic, geochronopathogenic, occupational, psycho-emotional) facilitate synthesis of free radicals in skin cells entailing dysfunction in various skin structures and, as a consequence, lead to its premature ageing. Antioxidant activity of substances helps to restore disturbed skin functions and neutralize negative influence of environmental stress factors on the skin to prevent its premature ageing. However an antioxidant effect itself does not solve all the problems related to skin dysfunction. Cosmetic branch development forces scientists to search for more and more progressive solutions aimed at improvement of skin condition, and thereupon special attention of scientists is now turned to peptide bioregulators.

Chemical and biological association of the Russian Academy of Sciences “Firm Vita” together with the Saint-Petersburg Institute of Bioregulation and Gerontology have developed an innovative line of beauty products containing synergic ingredients:

- Target peptides
- Ginseng biomass extract — bioantioxidant complex Neovitin®

- Revolutionary YOUTH GEMS cosmetics is a unique innovative set of products based on 35-year long studies conducted at the Saint-Petersburg Institute of Bio Regulation and Gerontology in the field of Amino Acids Bio Regulation.
- YOUTH GEMS beauty products activate skin barrier mechanisms and help to prevent formation of new wrinkles and reduce the depth of existing ones.
- A unique combination of Amino Acids and Ginseng will erase signs of stress and weariness and make skin smooth, moisturized and radiant.
- Experts in aesthetic medicine reported anti-edematous, anti-inflammatory, anti-hematomous and anti-oxidant effect of cosmetics YOUTH GEMS after beauty injections. Home care prolongs the effect obtained.
- The luxury of miraculous natural formula makes the product line “YOUTH GEMS cosmetics with Amino Acids and Ginseng extract” a choice of the most sophisticated ladies.





## DAY CREAM

### WITH PEPTIDES AND GINSENG EXTRACT

#### Ingredients:

*Aqua, Vitis Vinifera Seed Oil, Corn Starch Modified, PEG-2 Stearate, Ceteareth-25, Cetyl Alcohol, Hydrogenated Coconut Oil, Mineral Oil, Cyclomethicone, Panax Ginseng Cell Culture Extract (Neovitin®), Glycerin, Propylene Glycol, Phenoxyethanol, Ethylhexylglycerin, Hydroxyethyl Acrylate/Sodium Acryloyldimethyl Taurate Copolymer, Benzisothiazolinone, Methylisothiazolinone, Butylated Hydroxytoluene, Acrylates / C10-30 Alkyl Acrylate Crosspolymer, Triethanolamine, Argania Spinosa Kernel Oil, Parfum, Sodium Hyaluronate, Thymus, Cartilage, Vessels and Pineal Gland Peptide Complexes, Hexyl Cinnamal, Limonene, Butylphenyl Methylpropional, Linalool*

#### Action:

- The cream increases metabolic processes in skin cells, improves its structure due to peptides of thymus, vessels, cartilage and pineal gland, as well as bioantioxidant complex Neovitin®
- Antioxidant action of peptides of thymus, vessels, cartilage and pineal gland, as well as that of bioantioxidant complex Neovitin® and argan oil, prevents skin ageing, enhances its resistance to adverse influence of aggressive environmental factors;
- Cartilage peptide, bioantioxidant complex Neovitin® and argan oil contribute to smoothing of small wrinkles and skin softening, and increasing its elasticity;
- The cream intensifies and tones up skin due to the influence of vessels and cartilage peptides, and bioantioxidant complex Neovitin®, which improves skin microcirculation;
- The oils included into the cream composition make the skin soft and velvet again;
- It intensively moisturizes the skin with the help of argan oil, raisin-seed oil and sodium hyaluronate.



## NIGHT CREAM

### WITH PEPTIDES AND GINSENG EXTRACT

#### Ingredients:

*Aqua, Glycine Soja Oil, Steareth-21, Steareth-2, PPG/PEG-4/14 Dimethicone, Potassium Cetyl Phosphate, Cetearyl Alcohol, Panax Ginseng Cell Culture Extract (Neovitin®), Olea Europaea Fruit Oil, Simmondsia Chinensis Seed Oil, Vitis Vinifera Seed Oil, Paeonia Extract, Stearic Acid, Palmitic Acid, Ethylhexyl Cocoate, Phenoxyethanol, Ethylhexylglycerin, Triethanolamine, Benzisothiazolinone, Methylisothiazolinone, Citric Acid, Butylated Hydroxytoluene, Argania Spinosa Kernel Oil, Bisabolol, Parfum, Thymus, Cartilage, Vessels and Pineal Gland Peptide Complexes, Hexyl Cinnamal, Limonene, Butylphenyl Methylpropional, Linalool*

#### Action:

- Provides intense nutrition of the skin cells due to peptide complexes of thymus, vessels, cartilages, pineal gland, bioantioxidant complex Neovitin® made of ginseng cellular biomass, argan and soya oils;
- Thymus peptide, bioantioxidant complex Neovitin® and jojoba oil being cream ingredients restore natural protective skin barrier;
- Peptides of thymus, vessels, cartilage, pineal gland in combination with bioantioxidant complex Neovitin®, peony extract, argan oil, raisin-seed and jojoba oil stimulate and increase the activity of skin cells, accelerate their regeneration that results in improvement of complexion, reduction of vascular patterns, skin radiance and elasticity;
- Combination of several active ingredients — peptides of thymus, vessels, cartilage and pineal gland, bioantioxidant complex Neovitin®, argan oil, jojoba oil and raisin-seed oil — diminishes negative traces of environmental factors on the skin, contributes to physiological restoration of its basic structural elements and helps to slow down skin ageing.



## EYELID GEL

### WITH PEPTIDES AND GINSENG EXTRACT

#### Ingredients:

*Aqua, Propylene Glycol, Cyclomethicone, Panax Ginseng Cell Culture Extract (Neovitin®), Xanthan Gum, Chondrus Crispus, Glucose, Glycerin, Hydroxyethyl Acrylate/Sodium Acryloyldimethyl Taurate Copolymer, Sponge Extract, Phenoxyethanol, Ethylhexylglycerin, Saccharomyces Cerevisiae Extract, Argania Spinosa Kernel Oil, Parfum, Thymus, Cartilage, Vessels and Pineal Gland Peptide Complexes, Hexyl Cinnamal, Limonene, Butylphenyl Methylpropional, Linalool*

#### Action:

- Peptides of thymus, vessels, cartilage, pineal gland and bioantioxidant complex Neovitin®, argan oil and yeast extract being ingredients of the gel prevent formation of new wrinkles and black eye-rim, increase skin elasticity, slow down the process of skin ageing;
- Thanks to the action of the peptides of thymus, vessels, cartilage, bioantioxidant complex Neovitin®, extracts of yeast and fresh-water sponge the gel improves microcirculation and lymph drainage, reduces eyelids edema (eliminated “swelled eyes effect“), carefully nourishes, moisturizes and soothes the sensitive skin around eyes;
- Due to thymus peptide, bioantioxidant complex Neovitin® and argan oil in its composition the gel produces anti-inflammatory action, it softens the skin, eliminates irritation, including that caused by decorative cosmetics;
- Moisturizes intensively the skin thanks to specially developed complex (xanthane gum, carageenan, glucose).





## FACIAL MASK

### WITH PEPTIDES AND GINSENG EXTRACT

#### Ingredients:

*Aqua, Cyclomethicone, Panax Ginseng Cell Culture Cake, Panax Ginseng Cell Culture Extract (Neovitin®), Potassium Cetyl Phosphate, Cetearyl Alcohol, Steareth-21, Steareth-2, PPG/PEG-4/14 Dimethicone, Theobroma Cacao Seed Butter, Xanthan Gum, Chondrus Crispus, Glucose, Glycine Soja Oil, Glyceryl Stearate, Caprylic/Capric Triglyceride, Dimethicone, Phenyl Trimethicone, Phenoxyethanol, Ethylhexylglycerin, Benzisothiazolinone, Methylisothiazolinone, Argania Spinosa Kernel Oil, Sodium Hyaluronate, BHT, Parfum, Thymus, Cartilage, Vessels and Pineal Gland Peptide Complexes, Hexyl Cinnamal, Limonene, Butylphenyl Methylpropional, Linalool*

#### Action:

- Cleans skin deeply, eliminates keratinized cells, improves skin microrelief, increases its elasticity, soothes small wrinkles and levels the complexion. Makes the skin look fresh and elastic, inhibits its premature ageing.
- The biocomplex of cellular membranes of the ginseng root softly peels and deeply hydrates the skin, activates the process of cells renewal and improves skin blood microcirculation due to peptide complex of vessels and bioantioxidant complex Neovitin®
- The peptides of thymus and pineal gland in combination with bioantioxidant complex Neovitin® stimulate metabolic processes in skin cells, accelerate its regeneration, protect against premature ageing and negative action of environmental factors, stress included;
- Thymus peptide and cocoa oil restore skin barrier function, nourish, soften and tone it up, make it elastic and smooth thanks to cartilage peptide;
- Peptides of thymus, vessels, cartilages and pineal gland together with bioantioxidant complex Neovitin® and argan oil are unique natural antioxidants which eliminate damaging impact of free radicals and rejuvenate the skin;
- Intensively hydrates the skin with the help





## FACIAL SERUM

### WITH PEPTIDES AND GINSENG EXTRACT

#### Ingredients:

*Aqua, Sorbitol, Glycerin, Panax Ginseng Cell Culture Extract (Neovitin®), Xanthan Gum, Chondrus Crispus Extract, Glucose, PEG-40 Hydrogenated Castor Oil, Propylene Glycol, Prunus Amygdalus Dulcis Seed Extract, Phenoxyethanol, Ethylhexylglycerin, Panthenol, Disodium Rutinyl Disulfate, Hydroxyproline, Magnesium Ascorbyl Phosphate, Tocopherol, Ascorbyl Palmitate, Hydroxyethyl Acrylate/Sodium Acryloyldimethyl Taurate Copolymer, Benzisothiazolinone, Methylisothiazolinone, Argania Spinosa Kernel Oil, Citric Acid, Parfum, Thymus, Cartilage, Vessels and Pineal Gland Peptide Complexes, Hexyl Cinnamal*

#### Action:

- Thanks to the peptides of thymus, vessels, cartilage, pineal gland and bioantioxidant complex Neovitin® in its composition the serum intensifies metabolic processes in skin cells and improves its structure;
- The serum reveals a pronounced anti-inflammatory effect due to targeted action of thymus peptide and bioantioxidant complex Neovitin®;
- Natural antioxidants being ingredients of the serum (peptides of thymus, vessels, cartilages, pineal gland, bioantioxidant complex Neovitin®, vitamin E) neutralize effectively negative traces of free radicals on the skin, inhibiting skin ageing;
- Cartilage peptide contributes to normalization of collagen synthesis by skin cells that leads to smoothing of small wrinkles, improvement of skin microrelief; this result is intensified by the effect of active ingredients of the bioantioxidant complex Neovitin® and formation of elastic smooth film on a skin under the influence of sweet almond extract, creating “face lifting” effect;
- Vessels peptide improves considerably microcirculation in the skin thus optimizing metabolic processes in the vascular wall. This effect is enhanced by bioantioxidant complex Neovitin®; the liposomes with vitamin C and rutin who deliver active ingredients of the serum to deep layers of the skin resulting in improvement of skin nourishing and turgor;



## BODY MILK

### WITH PEPTIDES AND GINSENG EXTRACT

#### Ingredients:

*Aqua, Cyclomethicone, Ethylhexyl Cocoate, Propylene Glycol, Panax Ginseng Cell Culture Extract (Neovitin®), Glycerin, Caprylic/Capric Triglyceride, Vitis Vinifera Seed Oil, Potassium Cetyl Phosphate, Cetearyl Alcohol, Camellia Sinensis Leaf Extract, Bis-Diglyceryl Polyacyladipate-2, Phenoxyethanol, Ethylhexylglycerin, Glyceryl Stearate, Steareth-21, Steareth-2, PPG/PEG-4/14 Dimethicone, Stearic Acid, Palmitic Acid, Hydroxyethyl Acrylate/ Sodium Acryloyldimethyl Taurate Copolymer, Benzisothiazolinone, Methylisothiazolinone, Butylated Hydroxytoluene, Argania Spinosa Kernel Oil, Xanthan Gum, Acrylates / C10-30 Alkyl Acrylate Crosspolymer, Triethanolamine, Parfum, Thymus, Cartilage, Vessels and Pineal Gland Peptide Complexes, Hexyl Cinnamal, Limonene, Butylphenyl Methylpropional, Linalool*

#### Action:

- Cleans the skin effectively, eliminates skin discharge and old epidermis cells;
- Thymus peptide promotes regeneration of cells, it increases skin elasticity and produces anti-inflammatory effect;
- Raisin-seed and argan oils being ingredients of the milk intensively nourish the skin, improve its protection functions;
- Hydrolipid and acid-alkaline balance of the skin can be restored by peptides of the pineal gland and bioantioxidant complex Neovitin® which activate cells breathing;
- It makes skin elastic and smoothes small wrinkles with the help of cartilage peptide, bioantioxidant complex Neovitin®, argan oil;
- Protects the surface layers of skin against dehydration due to microcirculation improved by the impact of vessel peptide and green tea extract.



## FACIAL TONIC

### WITH PEPTIDES AND GINSENG EXTRACT

#### Ingredients:

*Aqua, Propylene Glycol, Glycerin, Panax Ginseng Cell Culture Extract (Neovitin®), Hamamelis Virginiana Water, Phenoxyethanol, Ethylhexylglycerin, Panthenol, PEG-75 Meadowfoam Oil, PEG-40 Hydrogenated Castor Oil, Benzisothiazolinone, Methylisothiazolinone, Parfum, Thymus, Cartilage, Vessels and Pineal Gland Peptide Complexes, Hexyl Cinnamal*

#### Action:

- Light tonic with pleasant odour, effectively and carefully cleans and soothes skin of the face, neck and decollete, and removes impurities and make-up without drying the skin;
- It actively moisturizes and renovates the skin, making it bright and radiant, elastic and silky under the effect of panthenol, winterbloom and meadowfoam extracts;
- It produces anti-inflammatory action due to the influence of thymus peptide, bioantioxidant complex Neovitin®, winterbloom extract, and prevents acne;
- It has pronounced rejuvenating effect thanks to the action of thymus peptides, vessel peptides, peptides of cartilage and pineal gland, bioantioxidant complex Neovitin®.





## RECOMMENDATIONS FOR COMPLEX APPLICATION: FACE, NECK, DECOLLETE AND BODY WITH BEAUTY PRODUCTS

# YOUTH GEMS

## COSMETICS WITH PEPTIDES AND GINSENG

### DAILY HOME CARE FOR ANY TYPE OF SKIN AND ANY AGE

**Day care:** moisturize the face, neck, decollete with **YOUTH GEMS tonic**, then apply a thin layer of **day YOUTH GEMS cream**. Distribute **YOUTH GEMS eyelid gel** over the skin surface around the eyelids with gentle massage movements.

**Evening care:** After cleansing with **YOUTH GEMS tonic** apply 3–4 drops of **YOUTH GEMS serum** on the face and 2–3 drops — on the neck and decollete, distribute by gentle movements. In 3–4 minutes you can apply **YOUTH GEMS night cream**.

- **2–3 times a week** after cleansing with **YOUTH GEMS tonic** apply thick layer of **YOUTH GEMS mask**; in 10–15 minutes remove the residues of the mask with **YOUTH GEMS tonic**; then apply **YOUTH GEMS night cream**.
- **YOUTH GEMS body milk** with nutritious, moisturizing and tightening effect should be used for moisturizing of the body after shower.

Daily complex employment of all **7 YOUTH GEMS products** will help you easily and **quickly reach visible results**.

Research and practical data obtained testify to a high efficacy and long-term action of **YOUTH GEMS** products which contribute tremendously to improvement of your skin and counteraction to adverse environmental factors, including psycho-emotional stress and various skin-damaging impacts.



## **CORRECTION OF CONSEQUENCES OF INVASIVE METHODS OF AESTHETIC MEDICINE**

Modern aesthetic medicine is a field of high technologies. Various invasive methods of skin correction (laser polishing, aggressive peelings, injection procedures, plastic surgery, etc.) are on the upswing, though they are often accompanied by undesirable side effects, such as edema, hyperemia, hematomas and so forth.

**The program of home care with YOUTH GEMS** beauty products after the most widespread injection procedures (mesotherapy, biorevitalization, bioreparation, bioreinforcement, wrinkles and lips contour correction, mesothreads, botox, non-surgical liposuction of the face form, plasmolifting, volume modelling etc.) has been developed to reduce rehabilitation period.

**Antiedematous stage** — application of **YOUTH GEMS tonic** in the form of 10 minute applications.

**Anti-inflammatory, soothing stage** — apply **YOUTH GEMS mask** as a dense layer. In 10–15 minutes remove the mask with **YOUTH GEMS tonic**.

These two stages can be used 1–2 times a day for the first week after the procedure. Further the mask can be used 2–3 times a week.

### **Restoration, regenerative stage**

**Day care:** moisturize the face, neck, décolleté with **YOUTH GEMS tonic** then apply a thin layer of **YOUTH GEMS day cream**. Apply **YOUTH GEMS eyelid gel** to the skin around the eyelids with gentle massage movements.

**Evening care:** after cleansing with **YOUTH GEMS tonic** apply 3–4 drops of **YOUTH GEMS serum** on the face and 2–3 drops — to the neck, décolleté, distribute with gentle movements. In 3–4 minutes apply **YOUTH GEMS night cream**.



**Thymus peptide** — stimulates tissue regeneration, synthesis of tissue-specific proteins, cells proliferative and metabolic activity, accelerating renewal of cells of various tissues; reveals anti-inflammatory effect, accelerates healing of wounds; displays antioxidant, immune stimulating and anti-stress action.

**Pineal gland (epiphysis cerebri) peptide** — regulates metabolic processes and increases protein synthesis in skin cells, it reveals high antioxidant activity, normalizes lipid peroxidation in skin cells that promotes elimination of negative influence on the skin of external (air pollution, intense sunlight, intensive physical activities, traumas) and internal (emotional stress) adverse factors hence facilitates metabolic processes in tissues to accelerate restoration process.

The beauty product line **“YOUTH GEMS cosmetics with peptides and ginseng extract”** is a specially developed program of complex skin care for the face, neck, décolleté and body.

The cosmetic products of this line include unique active ingredients: short peptides with targeted tissue-specific action to all basic skin structures, ginseng biomass extract with strong antioxidant and anti-inflammatory action and a number of other active ingredients.

**Cartilaginous tissue peptide** — stimulates regeneration of fibroblasts and keratinocytes, interferes with destructive changes in collagen skin structure, strengthens collagen structure of elastic skin fibers and increases its elasticity.

**Vessel peptide** — regulates metabolic processes in a vascular wall, normalizes vascular tone, restores skin microcirculation disturbed under the effect of adverse environmental factors and emotional stress, strengthens and regulates permeability of skin vessel walls, raises skin turgor.

## Bioantioxidant complex Neovitin®

is a complex of active ingredients (triterpene glycosides; avonoids, catechines, anthocyanides; micro- and macroelements) isolated from ginseng biomass cells using original biotechnological method. They participate in oxidation-reduction processes in the skin. Being a highly effective antioxidant, it produces anti-inflammatory and vitaminizing effect, strengthens the walls of blood vessels, normalizes fat and protein metabolism in skin cells and optimizes content of micro- and macroelements. It is intended for balance and correction of antioxidant skin status that is very important for prevention of natural and premature ageing of skin, protection against oxidative stress caused by adverse ecological conditions, smoking, and administration of antibiotics, intense physical and emotional loads, staying in air conditioned rooms.

**Biocomplex of cellular membranes of ginseng root** — is isolated from ginseng biomass cells. These are cellular membranes of ginseng root biomass, structures of the cell periphery, keeping its shape and protecting its protoplast. Main substance is cellulose. Cellulose molecules are long chains, collected in groups — microfibrilles. Besides cellulose the primary cellular membrane contains pectin and structural protein — glycoprotein. Cellular membranes are a soft peeling, which improve skin elasticity and suppleness. It makes the skin soft and silky.

**Olive oil** — consists mainly of oleic acid triglycerides (up to 84%), the rest are glycerides of palmitic and stearic acids, cholesterol and phytosterol, lecithin. It makes skin tender and velvet. Regenerates and moisturizes irritated, exfoliative, dry and withering skin.

**Raisin-seed oil** — has anti-inflammatory, moisturizing and regenerative effect. Promotes peeling-off of keratinized cells, considerably improves skin tone and structure. Regulates sebaceous glands activity, prevents dilation of pores.

**Argan oil** — is isolated by pressing of seeds (kernels) of the pips of argan tree fruits using cold pressing method. The argan tree, or iron tree, grows only in Morocco, and **argan oil** is one of the most rare and expensive vegetable oils in the world. Argan oil contains a lot of vitamin E and vitamin F (unsaturated fat acids). Argan oil is suitable for any type of skin. It is especially effective for treatment of age-related changes — skin wrinkles, dryness, dryness. Oil is quickly absorbed, it gets into deep layers of epidermis, improves derma cells condition, binds free radicals, promotes division of healthy cells. Perfectly moisturizes, nourishes, softens, regenerates skin, making it elastic, supple, healthy and rested again. It improves skin structure. It has proven itself good for gentle skin around the eyes, sensitive and children's skin care. It helps to prevent occurrence and to eliminate existing stretch marks. It reveals wound-healing, anti-inflammatory, analgesic effect so it can be used for treatment of various skin damages.



**Soya oil** — is a product of pressing and extraction of crushed soybeans. It is an important source of lecithin. It contains linolic acid, oleine acid, palmit in and stearin acids. As well as all oils rich in irreplaceable fat acids, lecithin and phytosterol, it restores epidermal barrier and water-retaining ability of the skin. Due to tocopherols and phytosterols it has expressed regenerative action.

**Jojoba oil** — is received from the beans of tropical evergreen bush. The mix of nonsaturated ether fat acids, it possesses high chemical stability and can be used as an additional preservative for cosmetic products. It possesses high penetrating ability and is deeply absorbed by the skin, providing moisturizing, nourishing, regeneration and protection of deep epidermis layers. Jojoba oil has more intense curative properties than many vegetative and animal oils. It promotes moisture preservation in skin tissues, eliminates peeling and irritation, promotes healing of cracks.

**Bisabolol** — is an extract from chamomile and lavender essence. It possesses anti-inflammatory and soothing action.

**Peony extract** — contains an essence which includes salicylic and benzoic acids, tannins, glycosides, iron, chrome, copper, sodium, potassium and other microelements. It is used in beauty products in order to increase skin turgor, for restoration of epidermis functions.

**Sodium hyaluronate** — is a derivative of hyaluronic acids. It can normalize water balance. It is well tolerated by the skin. It is used in cosmetic preparations as a gel forming component, but first of all, for elimination of hyaluronic acid deficiency which biological synthesis is disturbed due to ageing.

**Starch** — amylose and amylopectine polysaccharides, which monomer is alpha-glucose. The starch synthesized by different plants in their chloroplasts under the influence of light at photosynthesis, improves complexion and skin functions due to blood microcirculation improvement — the skin gets pleasant glossy shine and the complexion becomes much better.

**Green tea extract** — natural antioxidant with high content of polyphenols, its activity as an antioxidant is several times higher than antioxidant activity of vitamin E. Tea polyphenols also have anti-inflammatory and antibacterial effect, promote penetration of biologically active substances into the skin. Caffeine, being a part of the extract, promotes improvement of blood microcirculation and skin nutrition, reduces edema. Tannins make skin elastic. The extract is rich in essences and vitamins C, K and B groups.

**Glycerine** — triatomic alcohol, a component of vegetable and animal fats. It absorbs moisture from air and keeps it on the skin, making it soft and elastic.



**Xanthane gum** — polysaccharide of microbiological origin which can be received by hydrocarbon fermentation with the help of *Xanthomonas Campestris* culture. It is an emulsifier and thickener.

**Cocoa oil** — fat oil contained in cocoa beans (up to 55%). It contains stearin, palmitinic, oleic and linoleic acids. It reveals healing and toning up effects due to methylxanthine, caffeine, tannins.

**Carrageenan** — polysaccharide, received from the Irish moss or red seaweed. It can reduce allergic reactions. It is used in cosmetics as softening component, it can be used as gelatinization agent, thickener and emulsifier, softening and emulsifying component, it provides stability of emulsion and suspension.

**Glucose** — grape-sugar, monosaccharide. It is produced by acid and fermentative hydrolysis of starch or cellulose. Significant amount of glucose is contained in grapes, honey, etc. It actively participates in salt-water and carbohydrate metabolism, providing skin cells with energy.

**Active yeast complex** — contributes to prevention of baggy skin below the eyes and blood circulation improvement in the capillaries located directly under the skin. It increases elasticity of skin blood vessels due to vitamin presence; it stimulates production of vascular endothelial growth factor. It facilitates blood circulation in the area around the eyes, reduces congestion in vessels and reduces black eye-rims and edema below the eyes, making the areas around the eyes rested.

**Fresh-water sponge extract** — possesses anti-inflammatory, anti-edematous and transdermal (conductive) action that considerably strengthens activity of natural ingredients of the gel. It promotes activation of blood supply of the skin around the eyes, provides excellent resolving and bactericidal influence. It results in local release of biologically active substances autacoids — kinins, histamine, prostaglandine etc. Fresh-water sponge is accompanied by low heating effect and temporary local skin reddening.

**Sorbitol** — hexabasic aliphatic alcohol with sweet taste. It can be found in seaweed, rowanberry juice, starch-containing fruits. It can be used as a moisturizing component. It influences serum texture, making it soft, plastic and velvet.

**Liposomes with rutinil sulfate, ascorbil phosphate** — hollow microscopic spheres made of lipid membrane. This membrane contains stable form of vitamin C and rutin which slows down skin ageing process. Liposomes deliver active substances in deep epidermis layers. Rutin has additional anti-inflammatory effect, vitamin C — whitening effect.

**Pantenol (provitamin B5)** — possesses healing, moisturizing and smoothing action.

**Vitamin E** — tocopherols contained in green parts of plants, especially in young sprouts of cereals; vegetable oils (sunflower, corn, peanut, sea buckthorn, soya) are also rich in tocopherols. Vitamin E is a natural antioxidant. It protects skin against various oxidizing changes. It participates in biosynthesis of proteins, cells respiration and in other major processes of cellular metabolism. It protects skin cells against external adverse atmosphere influence.

**Sweet almond extract** — possesses smoothing and modelling action. It forms continuous, elastic and smooth film on the skin, making it elastic just like after “face lifting”. It soothes skin microrelief and results in instant reduction of wrinkles.

**Winterbloom distillate** — can be received by steam distillation of fresh leaves and plant sprouts, it has cleansing effect and properties of soft antiseptic. It soothes superficial skin layer, promotes shrinkage of pores, and interferes with inflammation.

**Meadowfoam oil** — contains tocopherols and unique combination of fat acids: saturated fat acids — palmitinic, stearic, arachic; monounsaturated fat acids — palmitolic, oleic, gadoleic; polyunsaturated fat acids — linoleic. It possesses strong anti-oxidative effect; it moisturizes skin, making an invisible protective film on the skin surface, interferes with moisture evaporation; improves skin structure, softens and soothes, raises its elasticity.

High efficiency of **YOUTH GEMS** beauty products is conditioned by the action of its basic active ingredients, each having been deeply studied. It is scientifically proved that action of **YOUTH GEMS** beauty products can be realized through three various mechanisms:

1  
2 3

1. **Action of peptides**, which normalize and stimulate functional activity of various skin structural elements.
2. **Action of antioxidants** which prevent formation of free radicals.
3. **Action of bioflavonoids** which intensify antioxidant action and possess high anti-inflammatory activity.

One of the most probable mechanisms of positive influence of **YOUTH GEMS** cream in cases of mesotherapy and other skin damaging factors is the ability of peptides and ginseng biomass extract to stimulate regenerative activity of cells in ageing skin due to intensified cell breathing and accelerated renewal of cells.

Experimental and clinical studies manifested tissue-specificaction of the peptides on vascular wall, immune, neuroendocrine, connective tissue skin cells, and pronounced antioxidant properties of ginseng biomass extract as well as anti-inflammatory, regenerative and anti-edematous action. These properties underlie their efficiency in correction of age-related skin changes, including those induced by adverse factors, mesotherapy and other invasive treatments.





## **The Bio Regulator Company**

Hönekullevägen 7

43544 Mölnlycke, Sweden

e-mail : [info@peptide-bioregulator.com](mailto:info@peptide-bioregulator.com)

Phone/fax : +46 760 655 769