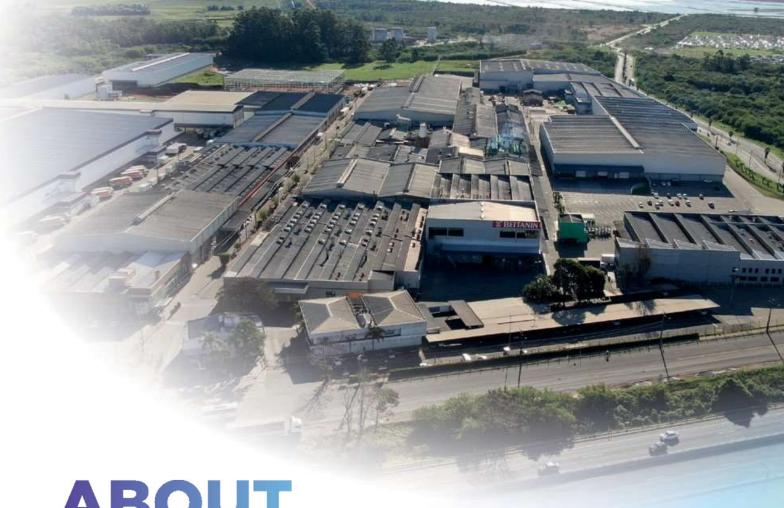
## PRODUCT CATALOGUE 2024



### OUR PURPOSE

We believe that cutting-edge scientific research coupled with rigorous quality controls is able to produce technologies that improve people's lives.

That's why we develop innovative and reliable technology solutions that help our customers to maximize their results.



# **ABOUT**US

InBetta, headquartered in Rio Grande do Sul and operating in the market for 77 years, brings together important brands such as Bettanin, Atlas, Sanremo, Ordene and SuperPro, which together produce more than 4,500 different products, totaling about 50 million units produced per month, marketed throughout Brazil and exposed to more than 50 countries.

In line with its strategic planning, it starts a new company, Bettech, which operates in the B2B segment. With even greater ambitions, Bettech now creates another new brand, aligning very high technology and quality: **Bettech Solutions**.

It took years of research, development and analysis to finally deliver to the market a line of assets encapsulated with all the advantages of high technology.

**Bettech Solutions** seeks to serve the cosmetics and dermocosmetics industry with rigorous quality and efficacy standards. We have modern development and quality control laboratories, after-sales and logistics services, ensuring excellence in serving our customers.



# HIGH TECHNOLOGY IN FAVOR OF COSMETICS

High Technology applied in cosmetics effectively promotes benefits and advantages in relation to the permeation of active components in the layers of the skin. These technologies are biocompatible products capable of overcoming biological barriers in a selective and planned way. Other characteristics of these materials are related to the protection of substances susceptible to oxidation and greater ease of incorporation into cosmetic bases compared to free actives. The technology used in our products improves the dispersion of actives, controls their release into the skin and enhances their stability.



ASSET PROTECTION



PENETRABILITY



MAXIMIZATION OF THE ASSET EFFECT



CONTROLLED RELEASE



BIOCOMPATIBILITY AND BIOADESIVITY



**CRUELTY FREE** 

# PRO DU CTS



#### **ASCORBIC SOLUTION**

#### **ASCORBIC ACID**

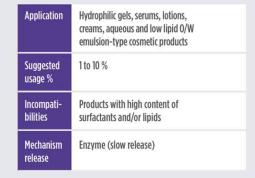
Ascorbic acid participates in cutaneous anti-aging processes, acting directly on the synthesis of collagen and elastin. In addition to being a potent antioxidant, it acts as a whitener in the treatment of hyperchromia, exercising an excellent function as a skin tone uniformizer. **Ascorbic Solution** delivers greater efficiency over the active in the conventional form due to greater penetrability and protection against premature degradation and oxidation. The carrier platform, in turn, mimics characteristics of the cell membrane, making it highly biocompatible. Its release occurs in two stages: initially it is rapid for a burst dose, followed by a sustained release aimed at prolonging the action.

#### **BENEFITS**

- •High stimulation of elastin synthesis
- Antioxidant action
- Increased cellular longevity
- •Increased skin firmness by stimulating collagen production
- •Reduction of wrinkles and blemishes

### 112.5% OF INCREASES IN THE ELASTIN PRODUCTION STRUCTURE





### BAKUCHIOL SOLUTION

#### **BAKUCHIOL**

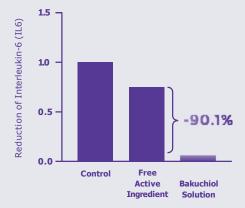
Known as vegan retinol, or retinol-like, bakuchiol stands out for its dermocalmant property, as well as for stimulating collagen production and cell turnover, being better tolerated than retinol, especially by sensitive skin. This active ingredient offers great advantage because it is well accepted in all skin types, delivering excellent anti-aging results, improving the firmness and state of fine lines and wrinkles, as well as helping to attenuate the condition of hyperpigmentations, homogenizing skin tone. It also acts as a seburo-regulatory and anti inflammatory, contributing to the improvement of acnceic skin. **Bakuchiol Solution** innovates the concepts of this amazing molecule, providing rapid and complete penetration to the deepest layers of the skin. In these deeper layers, the active is released and internalized by the cells. With this, a more efficient and prolonged action is observed.

#### **BENEFITS**

- Dermocalmative effect (reduction of pro-inflammatory cytokines)
- Anti-inflammatory action
- •Good acceptance on sensitive skins
- Anti-ageing action
- Stimulates collagen synthesis
- Reduction of oiliness
- High bioadhesion

90.1%

GREATER DUE TO THE REDUCTION OF PROINFLAMMATORY INTERLEUKIN-6 (IL6)



Applicatio n	Hydrophilic gels, serums, lotions, creams, aqueous and low lipid O/W emulsion-type cosmetic products
Suggest ed usage %	0.5 to 5%
Incompa ti- bilities	Products with high surfactant content as well as highly oily bases
Release mechani sm	Diffusional gradient (slow release)

### **ENERGIZE SOLUTION**

#### Q10 AND LIPOIC ACID

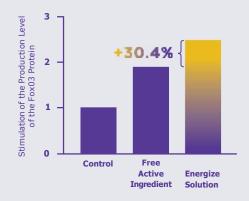
Lipoic acid is an organosulfur compound derived from caprylic acid and has several essential roles in our metabolism. In topical application, it has anti-inflammatory potential for the treatment of photoaging. In turn, Coenzyme Q10, another essential compound for our metabolism, has preventive action against oxidative damage that is caused by exposure to solar radiation. This ingredient reinforces the fight against natural oxidative stress and also acts on cell renewal. The Energize Solution integrates these two substances into a single high tech particle. Together, they promote increased cellular energy, contribute to skin lightening, protect from the effects of photoaging and have anti inflammatory action. The delivery of the two actives in combination in the layers of the skin where they are most in demand results in a synergistic effect in promoting cell renewal. The particle remains adhered for longer in the skin, in addition to presenting deep permeation, enzymatic release in two stages, differential characteristic of Bettech Solutions technology, and protection against the degradation of actives. These exceptional characteristics conferred by Bettech technology guarantee an even better protective and damage prevention function compared to the free form of the assets.



- Protection from the effects of photoaging
- Dermocalmant effect
- Stimulates cell renewal
- Skin whitening effect/reduces blemishes
- Increases cellular energy

- Protection from oxidative effects caused by UV radiation
- •Stimulates collagen and elastin synthesis
- •Improves skin firmness and fights sagging







#### NIACINAMIDE SOLUTION

#### **NIACINAMIDE**

Niacinamide is a multifunctional compound that brings several benefits in cosmetics, as it increases the biosynthesis of ceramides, improving the epidermal barrier that is degraded in mature skin and consequently improves texture and tone, in addition to reducing fine lines, wrinkles and hyperpigmentation. **Niacinamide Solution** stands out for significantly enhancing the benefits of this versatile ingredient compared to its free form. The active remains adhered for longer on the skin, being taken to the dermis in a few hours. Due to its slow release from the platform, the action is prolonged. An important note: the platform itself, even without active, acts as a hydrating agent due to the water retention capacity of its components, delivering even more multifunctionality to the product.

#### **BENEFITS**

- Stimulates the synthesis of ceramides
- Skin barrier protection
- •Stimulation of collagen and elastin synthesis
- Antioxidant action
- Dermocalmant
- •Skin whitening effect/ reduces blemishes

**154.2%** 

OF INCREASING THE POTENTIAL TO STIMULATE DECERMATED SYNTHESIS



Application	Aqueous or low lipid O/W emulsion type serums, lotions, creams and cosmetic products
Suggested usage %	1 to 6 %
Incompati- bilities	Products with high content of surfactants, and/or lipids
Release mechanism	Enzyme (slow release)

#### Q10 SOLUTION

Q10

Coenzyme Q10 has preventive action against oxidative damage that is caused by exposure to solar radiation. This ingredient reinforces the fight against natural oxidative stress and also acts on cell renewal by providing Q10 (whose natural production decreases with age). The **Q10 Solution** has greater efficiency in relation to the free-form active due to greater penetrability and protection against premature degradation, resulting in a more effective fight against photoaging. The high tech particle is carried in a few hours to the dermis and, due to its slow release, the action is prolonged with a lower concentration of active ingredient. There is a possibility of direct, easy and cold incorporation of a hydrophobic active in previously prepared hydrophilic bases.

#### **BENEFITS**

- Anti-wrinkle
- •Rejuvenation by Q10 replacement
- Stimulates collagen synthesis
- Stimulates elastin synthesis
- Protection and fight against photoaging
- •Remains adhered longer on the skin





Application	Serums, lotions, creams and cosmetic products aqueous or emulsion type O/W
Suggested usage %	1 to 6 %
Incompati- bilities	Oily excipients having a chemical structure containing aromatic rings
Mechanism release	Enzyme (slow release)

### RENEW SOLUTION

#### NIACINAMIDE AND PAPAIN

Papain is a widely diffused proteolytic enzyme in dermatology to renew the skin through a gentle peeling mechanism. Currently, papain has also been employed as a skin absorption promoter. In turn, niacinamide increases the biosynthesis of ceramides, which results in improved epidermal barrier and greater protection against external agents such as air pollution and solar radiation. The **Renew Solution** is a blend of these two potent ingredients, both in their encapsulated form in order to achieve performance gains and increased performance.

#### **BENEFITS**

• Stimulates cell renewal

• Stimulates cellular metabolism

36.4% CELI REGI PRO

OF INCREASED
CELLULAR
REGULATION AND
PROLIFERATION



Application	Serums, lotions, creams and cosmetic products aqueous or emulsion type O/W
Suggested usage %	1 to 6 %
Incompati- bilities	Oily excipients with aromatic rings in their chemical structure
Release mechanism	Enzyme (slow release)

#### **RESVERATROL** SOLUTION

#### RESVERATROL

Resveratrol is a polyphenol that strengthens the fight against natural oxidative stress. It also acts as a skin rejuvenator, as it activates sirtuins, which are proteins present in our body that regulate the rate at which we age. Due to its antioxidant property, it acts on the skin making it firmer, thus being an ally in the fight against sagging. It acts to reduce wrinkles and reduce spots. The **Resveratrol Solution** has greater efficiency in relation to the free-form active due to the greater penetrability and protection against premature degradation, resulting in a more effective fight against photoaging. It is carried in a few hours to the dermis and, due to its slow release, the action is prolonged with less need for active ingredient concentration for effective action.

### 62\_80/ IN SKIN ELASTICITY



#### **BENEFITS**

- •High stimulation of elastin synthesis
- •Increased skin firmness by stimulating collagen production
- •Protection from the effects of photoaging
- Protection from oxidative effects caused by UV radiation
- Skin whitening effect/reduces blemishes

Application	Serums, lotions, creams and cosmetic products aqueous or emulsion type O/W
Suggested usage %	2 to 10%
Incompati- bilities	Oily excipients with aromatic rings in their chemical structure
Mechanism release	Enzyme (slow release)

#### **RETINOL** SOLUTION

#### **RETINOL**

Retinol palmitate is an ingredient of important relevance due to its cosmetic multifunctionality, as it acts in the induction of the production of proteins such as elastin and collagen, being able to compose products that aim to treat and regenerate the skin, in addition to contributing significantly with its antioxidant activity, acting against the effects of aging. Retinol Solution is differentiated by the fact that the active remains adhered for longer in the skin, being taken to the dermis in a few hours. Due to its slow release, prolongation of action occurs. The platform itself, even without active, acts as a nonhyaluronic filler with a prolonged effect that stimulates collagen synthesis.



OF INCREASE



- Stimulates collagen synthesis
- Stimulates elastin synthesis
- Cell renewal

- Prolonged action of the asset
- Skin bleaching

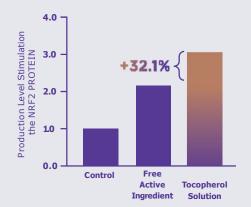
Application	Serums, lotions, creams and cosmetic products aqueous or emulsion type O/W
Suggested usage %	0.5 to 2%
Incompati- bilities	Oily excipients with aromatic rings in their chemical structure
Release mechanism	Enzyme (slow release)

### TOCOPHEROL SOLUTION

#### **TOCOPHEROL**

Tocopherol acetate (a precursor to vitamin E) is an efficient active ingredient in the protection and repair of skin injured by excessive sun exposure, promoting dermocalmative and regenerative action. It also acts as an excellent antioxidant agent. **Tocopherol Solution** stands out for its ability to remain adhered for longer on the skin. Thus, it actively participates in regeneration and acts directly in the repair and treatment of damage after excessive exposure to the sun. Due to the marked permeation, the enzymatic release (differential characteristic of Bettech Solutions) and the protection against the degradation of the active, **Tocopherol Solution** has a higher action than the active in its free form inside the cells of the dermis.

### 32.1% INCREASED ANTIOXIDANT ACTION EFFICIENCY



#### **BENEFITS**

- Protection against oxidative effects caused by UV exposure
- •Prevention of damage caused by solar radiation
- After-sun soothing effect
- Anti-wrinkle

- •Dermocalmant effect (reduces expression of interleukins)
- Cell renewal
- Protection against photoaging
- •Remains adhered longer on the skin

Application	Serums, lotions, creams and cosmetic products aqueous or emulsion type O/W
Suggested usage %	1 to 6 %
Incompati- bilities	Oily excipients with aromatic rings in their chemical structure
Mechanism release	Enzyme (slow release)

### HYALURONIC SOLUTION

#### **HYALURONIC ACID**

Hyaluronic acid has an outstanding moisturizing action among the main cosmetic actives. It fills the intercellular space, imparting rejuvenated appearance to the skin through the swelling of the active by water. The **Hyaluronic Solution** is indicated for firmer skin, combating sagging, wrinkle reduction and anti-ageing; makes the skin softer and smoother through its combined action on the skin surface and deeper layers; and, by being in the form of particle, ensures better hydration effect compared to the active in the conventional form, effectively adhering to the skin during the application of the product.



SKIN HYDRATION CAPACITY



- •Significant increase in skin hydration
- Fills the intercellular space
- Increased firmness to the skin
- Anti-wrinkle
- Anti-ageing

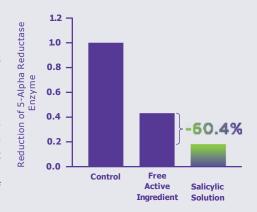
Application	Serums, lotions, creams and cosmetic products aqueous or emulsion type O/W
Suggested usage %	1 to 10%
Incompati- bilities	Products with high surfactant content, as well as highly oily bases and bases with high concentration of salts
Release mechanism	By adherence to the skin, during the application of the product

### SALICYLIC SOLUTION

#### SALICYLIC ACID

Salicylic acid plays an important role in the treatment of misshapen skin. It is able to break keratinic bonds, leading to their thinning, thus relieving scarring and roughness. Reduces peroxide formation and protein carbonylation, increases collagen synthesis and improves skin firmness. It also acts as a seburo-regulatory and anti-inflammatory, being highly indicated for oily and acneic skin. **Salicylic Solution** acts on all layers of the skin due to the greater bioadhesion to the surface of the skin, thus ensuring greater efficacy in superficial keratolytic action. It provides deep permeation of the active in the skin in a few hours and reaches the layers where it is most needed as a promoter of anti-inflammatory action.

### 60.4% REDUCTION OF 5 ALFA REDUCTASE, ENZYME LINKED TO THE STIMULATION OF SEBUM PRODUCTION



#### **BENEFITS**

- Reduction of oiliness
- Dermocalmant effect
- Stimulates cell renewal
- Decreases hyperkeratinization

Application	Serums, lotions, creams and cosmetic products aqueous or emulsion type O/W
Suggested usage %	2 to 10%
Incompati- bilities	Products with high surfactant content as well as highly oily bases
Mechanism release	Enzyme (slow release)

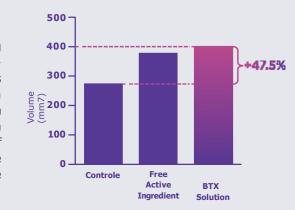
#### BTX SOLUTION

#### **TRIPEPTIDE**

The **BTX Solution** is an innovative and efficient product for treating wrinkles and expression lines. Its formula contains a tripeptide compound that acts similarly to botulinum toxin, relaxing the facial muscles and smoothing out expression lines. This compound mimics the function of a neurotoxin found in snake venom and, when applied to the skin as a cosmetic, ensures a prolonged botox-like effect. The carrier platform used in the **BTX Solution** ensures greater protection and penetration of the active ingredient into the deeper layers of the skin, increasing the effectiveness of the treatment and facilitating the delivery of the active ingredient to the facial muscle tissue.



HIGHER MUSCLE
CONTRACTION
REDUCTION
CAPACITY IN
MYORI ASTS



- •Reduction of facial muscle cell contractions
- Reduces expression lines' depths
- •Greater efficiency in overcoming skin biological barriers

Application	Hydrophilic gels, serums, lotions, creams, low-lipid aqueous and 0/W emulsion-type cosmetics
Suggested usage %	1 to 5%
Incompati- bilities	Products with a high content of surfactants and/or lipids.
Mechanism release	Enzymatic (slow release)

### TRANEXAMIC SOLUTION

TRANEXAMIC ACID

Tranexamic Acid is widely recognized for its exceptional skin-lightening properties, acting as a powerful ally against hyperpigmentation. By significantly reducing melanin levels and inhibiting the activity of tyrosinase, a key enzyme in the skin pigmentation process, the **Tranexamic Solution** presents itself as an efficient solution for the treatment of spots. Moreover, this innovative product works to control the synthesis of arachidonic acid and prostaglandin, which contributes to the reduction of inflammation and redness, providing a more uniform skin tone and visibly diminishing areas of hyperpigmentation.

### 18.6 % DECREASE IN MELANIN PIGMENTATION



- Lightening effect
- Reduces inflammation and redness
- Reduces tyrosinase activity
- Significant reduction in melanin production

Application	Hydrophilic gels, serums, lotions, creams, low-lipid aqueous and O/W emulsion-type cosmetics
Suggested usage %	1 to 3%
Incompati- bilities	Products with a high content of surfactants and/or lipids.
Mechanism release	Enzyme (slow release)

# bioactives

particles, they are able to reach the skin's

verified outcomes. This approach marries the best of nature with cutting-edge technology, offering a sustainable and highly efficacious

layers, ensuring impactful and

consumers in pursuit of

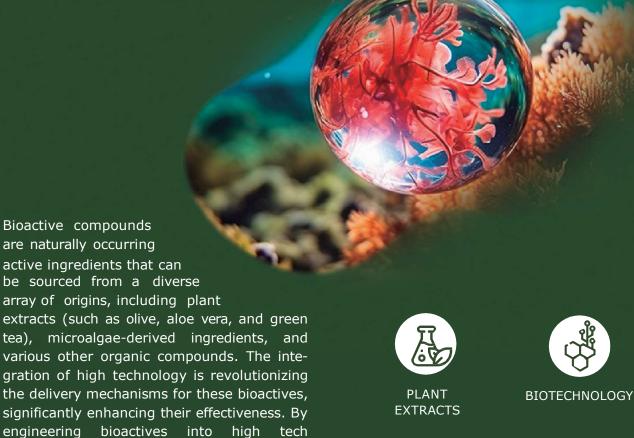
dly products with

deepest

solution for

environmentally frien-

confirmed benefits.





VEGAN ACTIVES

**SUSTAINABLE** 

#### QUERCETIN SOLUTION

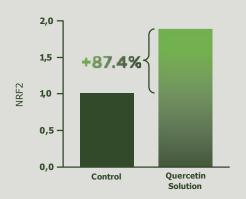
#### QUERCETIN

Quercetin is a polyphenolic antioxidant of plant origin with anti-inflammatory properties. However, its efficacy in cosmetic formulations is limited due to its sensitivity to oxidation and water insolubility. Through the nanostructuring of the active ingredient, the **Quercetin Solution** is able to reach the deeper layers of the skin, increasing its efficiency and releasing quercetin through an enzymatic trigger. As an antioxidant, the **Quercetin Solution** helps protect the skin against damage caused by free radicals. This product also stimulates the synthesis of elastin and collagen, improving skin firmness and elasticity, making it an important ally in combating skin aging.

#### **BENEFITS**

- •Increases skin firmness by stimulating collagen production and by reducing its degradation
- •Increases skin elasticity due to the stimulus of elastin synthesis
- •Increases protein related to cell lonvevity
- •Boost the antioxidant defenses of the skin
- Easily miscible in water

87.4% HIGHER ANTIOXIDANT ACTION EFFICIENCY



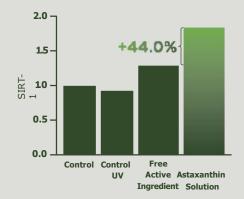
Application	Serums, lotions, creams, aqueous or 0/W emulsion-type cosmetic products
Suggested usage %	2 to 10%
Incompati- bilities	Oily excepients with chemical structure of aromatic rings
Mechanism release	Enzymatic (prolonged release)

### ASTAXANTHIN SOLUTION

#### **ASTAXANTHIN**

The **Astaxanthin Solution** is a revolutionary product that uses astaxanthin as its main ingredient, a carotenoid extracted from the microalgae Haematococcus pluvialis. Astaxanthin is one of the most potent antioxidants known, capable of inhibiting reactive oxygen species (ROS) and preventing premature skin aging. The carrier platform used in the **Astaxanthin Solution** ensures greater penetration of the active ingredient into the skin, increasing the effectiveness of the treatment, as well as protecting the active ingredient against oxidation. With regular use, it is possible to achieve more protected, healthy, and rejuvenated skin.





- Protection from stimulation of collagen synthesis
- Photoaging effects
- Increased antioxidant defenses of the skin
- Protection against oxidative effects caused by UV exposure

Application	Serums, lotions, creams and cosmetic products aqueous or O/W emulsion type
Suggested usage %	1 to 3%
Incompati- bilities	Oily excepients with aromatic rings in their chemical structure
Mechanism release	Enzymatic (slow release)

#### CHLORELLA DETOX

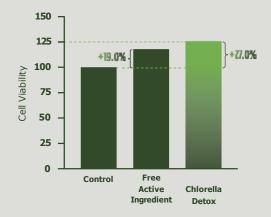
#### **CHLORELLA**

Like all products in Nano Solutions' bioactive line, the **Chlorella Detox** represents an exceptional harmony between nature and scientific forefront. Chlorella sp., a freshwater microalgae, is recognized for its remarkable antioxidant and anti-inflammatory properties, in addition to stimulating collagen and elastin synthesis. Through nanoencapsulation technology, the **Chlorella Detox** can reach the deeper layers of the skin, increasing its efficiency and releasing chlorella through an enzymatic trigger. It combats oxidative stress, maintaining the health and natural glow of the skin, while also reducing the production of pro-inflammatory cytokines, promoting balance and harmony to your skin. Moreover, it offers solid protection against environmental aggressions, including the harmful effects of pollution.

#### **BENEFITS**

- Anti-pollution effect
- Stimulation of the synthesis of collagen
- Stimulation of the synthesis of elastin
- Increase antioxidant defenses of the skin
- Protection against oxidative effects caused by UV exposure
- Increases skin firmness





Application	Serums, lotions, creams and cosmetic products aqueous or 0/W emulsion type
Suggested usage %	1 to 3%
Incompati- bilities	Oily excepients with aromatic rings in their chemical structure
Mechanism release	Enzymatic (slow release)

#### PHYCO WELL AGE

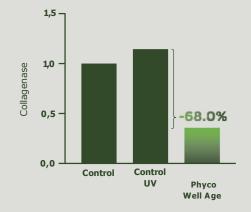
#### RED ALGAE EXTRACT

Phycobiliproteins, distinct molecules, stand out in the dermatological industry due to their antioxidant, anti-wrinkle, anti-melanogenic, and anti-aging properties, in addition to being natural and safe colorants. Phycoerythrin, a prominent phycobiliprotein, shines for its remarkable antioxidant power, reduces collagen degradation, and protects against the degradation of the extracellular matrix.

**Phyco Well Age** represents a promising innovation in dermatological products, incorporating the potential of phycobiliproteins. Its natural and innovative approach promotes a revitalized, radiant, and healthy skin appearance. Moreover, it features a highly optimized delivery system.

### 68.0%

COLLAGENASE
EXPRESSION
FOLLOWING UV
RADIATION EXPOSURE



- Protection against extracellular matrix degradation
- Reduction of collagen degradation
- Reduction of elastin degradation
- Reduction of skin sagginess
- •Strengthens the skin barrier of protection
- •Increased antioxidant defenses of the skin
- •Protection from oxidative effects caused by UV exposure

Application	Serums, lotions, creams and cosmetic products aqueous or 0/W emulsion type
Suggested usage %	1 to 3%
Incompati- bilities	Oily excepients with aromatic rings in their chemical structure
Mechanism release	Enzymatic (slow release)

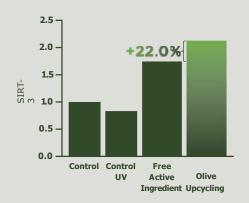
### OLIVE UPCYCLING

22.0% INCREASE IN PROTECTION AGAINST PHOTOAGING

#### **OLIVE EXTRACT**

In tune with the Bettech Solution bioactive line, **Olive Upcycle** harnesses the full potential extracted from olive pomace, rich in antioxidant phenolics. These bioactives combat free radicals, protecting the skin against oxidative stress and environment-induced aging. Additionally, **Olive Upcycle** has anti-inflammatory properties, reducing interleukin-6 and TNF- $\alpha$  for a dermo-calming effect.

The efficacy of this product is enhanced by high technology, which improves the permeation of bioactives into the skin thanks to the carrier platform that mimics the cell membrane, making it highly biocompatible. Thus, **Olive Upcycle** delivers the perfect union between nature and science to provide healthier and more radiant skin.



- Protection against photoaging
- Skin calming effect
- Increase the antioxidant defenses of the skin
- Cellular longevity

- Skin firmness
- Protection against oxidative effects caused UV exposure

Application	Serums, lotions, creams and cosmetic products aqueous or O/W emulsion type
Suggested usage %	1 to 3%
Incompati- bilities	Oily excepients with aromatic rings in their chemical structure
Mechanism release	Enzymatic (slow release)

## **OUR ACTIVE**INGREDIENTS







































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