



**DE-OX**  
*C evolution*

**VITAMIN C  
AND BEYOND**

PROFESSIONAL MANUAL



**BIOLINE** JATÒ

Italian research and beauty

# OXIDATION AND GLYCATION

THE DERMIS GIVES SKIN ITS STRENGTH AND ELASTICITY THANKS TO THE THREE-DIMENSIONAL ORGANISATION OF ITS FIBRES. OVER THE YEARS, THE SKIN'S SUPPORT STRUCTURES SUFFER THE HARMFUL MECHANISMS OF OXIDATION AND GLYCATION, TWO OF THE MAIN CAUSES OF SKIN AGEING.

Skin is subject to a series of harmful factors every day - pollution, excessive sun exposure, lifestyles and improper nutrition - which are collectively responsible for the dreaded **oxidative stress** and for the consequent accumulation of free radicals in cells. Cosmetic research has long used powerful active antioxidants to repair the damage and to protect the cells and structures of the skin from the harmful action of free radicals.

## ■ OXIDATION

A cut APPLE undergoes an oxidation process: its colour changes when in contact with oxygen.

The latest scientific studies have shown that a second process also plays a key role in skin ageing: **glycation**. This is a slow and irreversible process which generates Advanced Glycation End products (AGEs), harmful molecules that accumulate in the skin, causing a stiffening of the support structures and the disorganisation of the reticular dermis.

## ■ GLYCATION

a BREAD crust hardens due to glycation, becoming rigid and fragile at the same time.

The two processes interact continuously, amplifying each other and causing the most evident effects of **premature ageing** of the face and neck.

## ■ PREMATURE AGEING

- Expression lines
- Tissue relaxation
- Skin blemishes and dull complexion
- Capillary fragility

Every day, various elements oppose each other in our skin, both to the detriment and in defence of its youth: on one side there is the joint action of free radicals and AGEs, and against these the **natural defence mechanisms** supported and strengthened by cosmetic technological achievements.

## ■ NATURAL DEFENCE MECHANISMS

Enzymes, vitamins and trace elements are produced by the body to fight off ROS (Reactive Oxygen Species), but the growing influence of exogenous factors unbalances the natural defence mechanism.



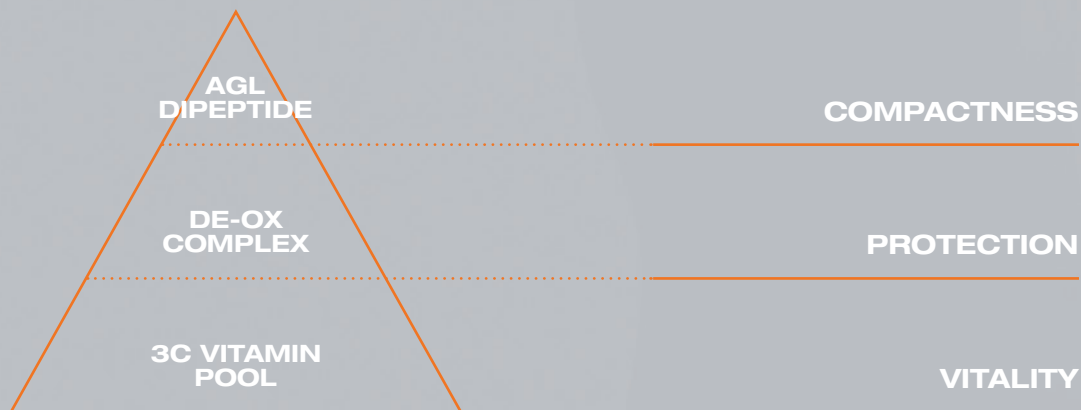
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DE-OX C EVOLUTION HAS BEEN STUDIED BY BIOLINE - JATÒ LABORATORIES WITH A TWOFOLD OBJECTIVE: TO HAVE AN EFFECTIVE ALL-AROUND ACTION BOTH ON THE OXIDATIVE STRESS AND ON GLYCATION.



**3C Vitamin Pool, DE-OX Complex** and **AGL Dipeptide** are the protagonists of this new combination: an innovative and effective synergy to ensure a powerful revitalising and protective effect.

A line that combines the most advanced forms of vitamin C with multi-purpose active complexes in order to protect the wealth represented by the beauty of **young skin**, and to repair the damage that the ageing process causes to **mature skin**.

Cutting-edge cosmetic formulations, characterised by extremely selective action mechanisms, release the active ingredients in the heart of the skin tissue, whilst maintaining high sensory performances.

■ **YOUTHFUL SKIN**

Energy, brightness and resistance to environmental stimuli.

■ **MATURE SKIN**

Renewal, increase in thickness, tone.



VITAMIN C AND BEYOND



# 3C VITAMIN POOL

THREE DIFFERENT TYPES OF VITAMIN C, THE ANTIOXIDANT PAR EXCELLENCE, ARE COMBINED IN A BALANCED FORMULATION TO PROVIDE THE SKIN WITH MAXIMUM CONCENTRATION, ABSORPTION AND STABILITY. THE FUNDAMENTAL BASIS TO PROTECT ALL TYPES OF SKIN FROM THE DAMAGE CAUSED BY FREE RADICALS, AND TO SAFEGUARD ITS INTEGRITY AND VITALITY.

## ■ CONCENTRATION, ABSORPTION AND HIGH STABILITY

A high concentration of active principles, skin penetration capacity and long term stability are the factors that determine the biological importance of vitamin C-based cosmetics.

## L-ASCORBIC ACID

### CONCENTRATION AND EFFECTIVENESS

It is the purest and most active form of vitamin C, the most abundant antioxidant vitamin in the skin. It acts in the aqueous compartment of the cells by neutralising free radicals and protecting intracellular structures against oxidative stress. It is essential for **collagen synthesis**.

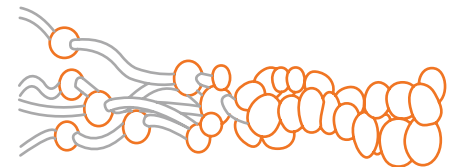
## ■ COLLAGEN SYNTHESIS

Vitamin C is essential for collagen synthesis. Whenever reference is made to the renewal of collagen within the cosmetic field, one actually refers to a physiological process where a vitamin C intake is essential.

## ASCORBYL PALMITATE

### STABILITY AND TOLERABILITY

A fat-soluble form of vitamin C characterised by high oxidation stability and high skin tolerance. Thanks to its affinity for lipids, is able to penetrate quickly into the skin and to cross cell membranes, where it exerts its antioxidant action, helping to prevent cell ageing.



## ASCORBYL TETRAISOPALMITATE

### PENETRATION AND MULTI-FUNCTIONALITY

A multi-functional derivative of vitamin C, in a fat-soluble form characterised by superior absorbency. It helps prevent the appearance of skin blemishes, protects against UVA and UVB rays, promotes **collagen synthesis** and inhibits degradation.



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**VITALITY**

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# DE-OX COMPLEX

A COMPLEX OF THREE ACTIVE INGREDIENTS WHICH WORK SYNERGISTICALLY, ENHANCING THE ANTIOXIDANT AND ANTI-GLYCATION PROCESSES WITH A GLOBAL ACTION: ANTIPOLLUTION, SUNSCREEN AND COLLAGEN BOOSTER.

## OXISHIELD ANTIOXIDANT SHIELD

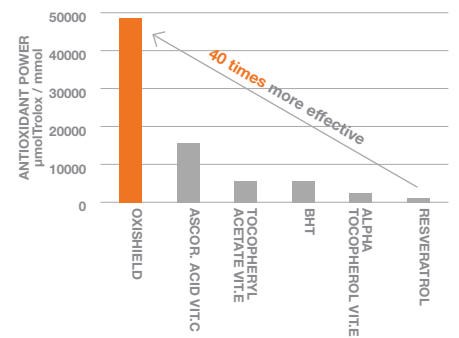
Oxishield is a true protective screen with an unparalleled antioxidant power, a fast action and a **superior efficacy** compared with that of the most famous antioxidants. It is a new generation active ingredient able to counteract the formation of free radicals, to reduce the damage caused by exposure to environmental pollutants, to boost sun protection factors (sunscreen booster) and to protect the skin from the damage of IR radiation.

## ECTOINE NATURAL PROTECTION

A functional substance of natural origin which helps organisms to survive in some of the most inhospitable places on Earth. Similarly on our skin, ectoine **shields skin cells from environmental stress** and protects the Langerhans cells, the "sentinels" of the skin's immune system. Moreover, it promotes cellular repair aiding the production of key molecules involved in protecting biological structures.

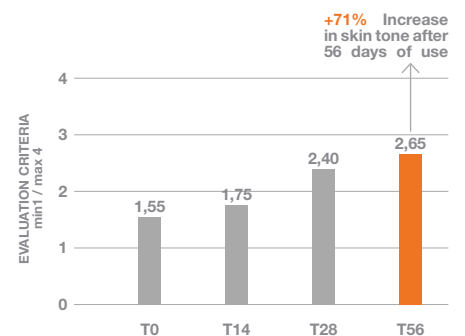
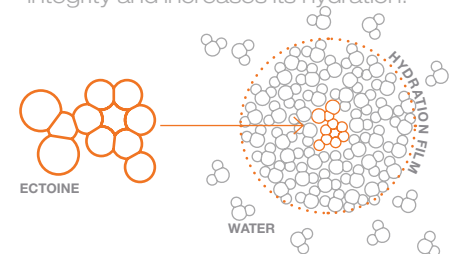
## MASLINIC ACID CELL LONGEVITY

Maslinic acid is extracted from the olive tree through a highly technological process; this is a millennial beauty ingredient whose fruit is rich in compounds and bioactive substances. A powerful antioxidant and a natural anti-inflammatory, maslinic acid protects cells from free radical damage and reduces the production of pro-inflammatory cytokines. It also promotes the **increase of skin thickness, elasticity and tone** by stimulating the synthesis of collagen, elastin and hyaluronic acid.



Source: Kalichem Italia - Brescia, Italy

Ectoine binds water molecules and creates the Ectoine Hydro Complex, a hydration film that preserves skin integrity and increases its hydration.



Source: Eggroup - Barcelona, Spain





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**PROTECTION**



# AGL DIPEPTIDE

**AGL DIPEPTIDE IS THE SPEARHEAD OF THE DE-OX C EVOLUTION FORMULA: A FUNCTIONAL SUBSTANCE OF PROVEN EFFECTIVENESS, WITH NATURAL ANTI-OXIDANTS AND ANTI-GLYCATION EFFECTS, WHICH PREVENTS AND COUNTERACTS BOTH SKIN AGEING PROCESSES.**

Glycation affects all of the body's proteins, including those of the dermis and, among these, mainly collagen, the most abundant skin protein.

The collagen glycation process can be seen as a sort of "caramelisation": glucose (a sugar molecule normally carried in the blood) reacts spontaneously with the collagen and, subsequently, through a complex series of chain reactions, it creates advanced glycation by-products called AGEs (Advanced Glycation End products). These AGEs form molecular bridges between the collagen fibres which cause a disruption of the reticular dermis. This means there is a progressive loss of elasticity in the fibres which become rigid and unstructured.

AGL Dipeptide behaves as a "bait" antagonist in the glycation process: it reacts with the sugar molecules, prevents these from fixing to the collagen, thereby counteracting the loss of elasticity of the dermis. Through an innovative mechanism, it acts at **different levels of the ageing process** by inhibiting oxidative reactions and preventing the formation of **crosslinks in the collagen fibres**.

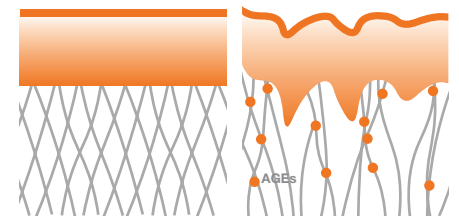
Its direct action in the glycation process triggers a virtuous mechanism which stops the degradation of collagen, supporting the tone and firmness of skin tissues.

## AGEING-RELATED COUNTERACTIONS

- It stops oxidative damage
- It helps to preserve the strength and functionality of collagen
- It inhibits glycation, stopping the formation of AGEs
- It promotes the degradation of the modified proteins

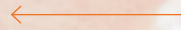
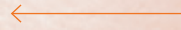
## CROSSLINKS IN THE COLLAGEN FIBRES

Collagen is an essential protein for the structure of the dermis: thanks to the three-dimensional organisation of its fibres, it gives the skin strength and elasticity. The glycation process creates irreversible bonds between the collagen fibres resulting in a hardening of the skin's support structures and the formation of wrinkles.





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**COMPACTNESS**



# PROFESSIONAL PRODUCTS

## SERUM VITAMIN C 15

**ASCORBIC ACID / ASCORBYL  
TETRAISOPALMITATE / ASCORBYL  
PALMITATE**

An advanced combination of three different types of vitamin C, in high concentration, contained in an intensive serum with a powerful anti-oxidant cosmetic action. An exclusive contribution of moisture, elasticity, and extraordinary moisture to the skin. An innovative formula incorporated into an active texture with a revitalizing effect and incredibly silky feel.



10x5 g - 10x0,17 fl.oz

## PEEL-OFF MASK REVITALIZING

**DIATOMACEOUS EARTH / ALGINATE**

A uniforming mask with seaweed-extract: an authentic source of moisture that helps revitalize the face, restoring freshness and luminosity to dull, dry, and mottled skin.

The skin takes on an incredibly soft veil that promotes the absorption of the previously applied active ingredients.



10x25 g - 10x0,88 fl.oz

## CREAM INTENSIVE RADIANCE

**OXISHIELD / MASLINIC ACID / ALMOND  
OIL**

A velvety and comfortable cream that encourages massaging and offers extreme sensory qualities during application. A formula with an illuminating effect, enriched with liporestoring plant oils that intensely nourish the skin and awaken its well-being. A texture that glides over the skin with an incomparable natural feel, bringing moisture and uniformity to the face, neck, and throat.



200 ml - 6,7 fl.oz



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# MULTI-CORRECTION PROFESSIONAL TREATMENT

## BEFORE STARTING THE TREATMENT

### SURFACE CLEANING

Remove make-up using **DAILY RITUAL GENTLE dual phase eye make-up remover**.

Wash and tone the skin, neck, and throat with the **DAILY RITUAL detergent cream-milk** and **refreshing lotion** more suited to the type of skin.

### DEEP CLEANING

Based on the type of skin, choose one of the following exfoliant products:

- **DAILY RITUAL EXFO exfoliating mask**, apply about 20 ml of product on the face and neck using a brush. Leave on for 4 to 8 minutes. Rinse with warm water.
- **DAILY RITUAL EXFO microgel scrub**, apply 10 ml of product and massage in a circular motion onto the face and neck, concentrating on the thicker zones. Rinse with warm water.

Apply **BIOAROMA energy DRN oil** on the palm of the hand, rub hands together vigorously and perform pressure on the throat with alternating hands then use sliding motions on the face.

## PHASE 1

Activate **DE-OX C EVOLUTION vitamin C 15 serum**. Screw the cap on the flask until the capsule is broken, making sure the powder comes out completely. Shake well until all powder is dissolved.

Apply the entire contents of the flask on the face, neck, and throat, and massage until completely absorbed.





## PHASE 2

Apply 8 ml of **DE-OX C EVOLUTION intensive radiance cream** on the throat using a brush. Massage the product, extending it to the neck and face. Proceed with the **SKIN ROLL** massage stimulating and oxygenating movements.

*Face, neck, décolleté and shoulders massage studied in combination with the cosmetic treatment DE-OX C evolution in order to intensify its action and its performance. A sequence of specific manuvres that improves the tissue receptiveness, favors the absorption of the active ingredients and promote an intense stretching, draining and detoxifying aesthetic action.*

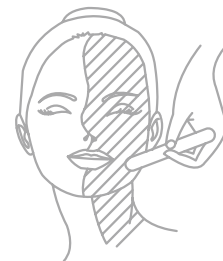


## PHASE 3

Pour the contents of one packet of **DE-OX C EVOLUTION revitalizing peel-off mask** into a bowl. In another bowl mix 40 ml of **DAILY RITUAL ENERGY refreshing lotion** with 40 ml of hot water then combine the solution with the powder mask. Mix thoroughly with a spatula until uniform and without lumps.

After applying two disks of cotton on the eyes, quickly apply the mask uniformly over the face and neck. Leave to rest for 15-20 minutes. Remove the mask, lifting from below using the hands and removing any product residue with a disk soaked with the **DAILY RITUAL refreshing lotion** most suitable for the type of skin.

Perform a stimulating “beater” toning using a disk soaked with **DAILY RITUAL refreshing lotion**.



## PHASE 4

Finish the treatment by applying 2 ml of **DE-OX C EVOLUTION intensive radiance** cream on the throat, neck, and face, massaging until completely absorbed.



**!** USE OF THE DE-OX C EVOLUTION HOME COSMETIC PRODUCTS IN SYNERGY WITH PROFESSIONAL TREATMENTS, WILL HELP TO MAXIMISE THE AESTHETIC RESULTS OBTAINED



# HOME TREATMENT COSMETICS

**SERUM ESSENTIAL C**  
**CREAM ESSENTIAL C**



The essence of vitamin C contained in two home treatment formulas, serum and cream, with a fresh texture and a pleasant citrus scent, for your daily prevention and treatment. A quick and effective solution, particularly suitable for young skin frequently exposed to stress, sun and the harmful effects of the environment. A source of vitality for a beautiful and radiant skin every day.

**EYE / LIP CREAM INTENSIVE CORRECTION**  
**BOOSTER SERUM POWER C**  
**CREAM RADICAL CAPTURE**  
**CREAM INTENSIVE CORRECTION**

From the Bioline-Jatò research, four new generation formulas help your skin every day in its natural defence process, counteracting the harmful effects of oxidative stress and glycation. A home treatment program, designed for all skin types, which benefits from formulas enriched by multi-function active compounds. An exclusive association of 3C Vitamin Pool, DE-OX Complex and AGL Dipeptide to intensively revitalise, protect and give new firmness to your skin.

## SERUM ESSENTIAL C

**VITAMIN C / PANTHENOL / VITAMIN E**

Serum with a melting and silky consistency that revitalizes and recharges the skin's energy, moisturizing and illuminating the face and providing an immediate sensation of freshness and well-being.

Delicately fragranced and rapidly absorbing, it is ideal for younger skin that recovers a uniform and vital appearance.



30 ml - 1,0 fl.oz

## CREAM ESSENTIAL C

**VITAMIN C / SWEET ORANGE EXTRACT / SHEA BUTTER**

A concentrate of vitamin C contained in a fresh and soft texture. A burst of pure energy that melts into the skin, providing extraordinary luminosity and perfection day after day. Suitable for all types of skin, it is ideal for younger skin, which are frequently exposed to stress and environmental damaging factors.



50 ml- 1,69 fl.oz





## **EYE / LIP CREAM INTENSIVE CORRECTION**

**MASLINIC ACID / VITAMIN C / EYE & LIP  
RELIEF COMPLEX**

A unique balance of richness and lightness that delicately enfolds the skin in the most fragile areas of the face, reducing the visibility of lines, bags and dark circles. This velvety cream provides a fresh sensation of immediate wellness for a more luminous look and defined lip. The texture glides caressingly, melting into the skin for a result of pure perfection.



30 ml - 1,0 fl.oz

## **BOOSTER SERUM POWER C**

**VITAMIN C / AGL DIPEPTIDE / VITAMIN E**

The power of a high concentration of vitamin C contained in an ultra-active serum with a reinforced formula that illuminates, renews, and revitalizes the skin. An authentic starter of radiance and youth, it maintains the skin's natural tone and compactness over time. The melting texture allows rapid absorption of the active ingredients and leaves the skin with a fabulous silky effect.



30 ml - 1,0 fl.oz

## **CREAM RADICAL CAPTURE**

**OXISHIELD / MASLINIC ACID / AGL  
DIPEPTIDE**

Anti-oxidant cosmetic action formula, with a light and silky texture, intensely stimulates and protects the skin, providing an invisible shield against external aggression. A concentrate of multi-functional substances that act on the signs left by time, giving skin a unique luminosity and a sensation of complete wellness.



50 ml - 1,69 fl.oz

## **CREAM INTENSIVE CORRECTION**

**ECTOINE / VITAMIN C / ARGAN OIL**

Rich and precious cream that envelops the skin with an intensely nourishing film, leaving it compact, smooth, and incredibly soft. It takes advantage of nocturnal biorhythms and of the high concentration of ectoine to reinforce the skin defences, providing it with radiance and perfection. The most resistant skin shines with extraordinary beauty.



50 ml- 1,69 fl.oz



# BIOLINE RECOMMENDATIONS

## TO WHOM TO PROPOSE THE TREATMENT

The Multi-Correction Professional Treatment can be proposed to all types of skin that require excellent protection and an intensive aesthetic intervention to promote luminosity, elasticity, and skin moisture.

- Indicated for skin that is frequently exposed to the sun, UV lamps, pollution, damaging atmospheric agents (wind, cold, temperature changes, etc.) and stress.
- Recommended for mature, relaxed, prematurely aged, dull, opaque, and delicate skin, and skin with altered surface micro-circulation in order to recover tone and luminosity.
- Also ideal for young skin to prevent the damages of oxidation and maintain elasticity and compactness.

## WHEN TO PERFORM THE TREATMENT

- At any time of the year in association with specific treatments such as the “Overall Skin Anti-ageing Project”.
- Every once in a while to give new energy and vitality to the tissue and immediate splendour to the skin.

## DURATION AND FREQUENCY OF TREATMENT

- **FOR AN INTENSE ACTION:** 5 close treatments (1 - 2 treatments per week).
  - **AS PREVENTION:** 1 treatment every 2 weeks for 5 sessions.
  - **FOR MAINTENANCE:** 2-3 sessions per year or as in the “Overall Skin Anti-ageing Project”.
- ! The complete cycle of sessions may be repeated several times at any time of the year.

The naturalness of the formula could causes slight variations in the colour and/or odour that do not affect the aesthetic function.

### WARNING

These are cosmetic products for professional use and therefore the instructions must be strictly followed.

The beautician must inform the consumer about the message contained in the precautions and warnings.

Before using, check the ingredient list to check for any intolerances or allergies.

For particularly sensitive patients we recommend a tolerance test, applying the product on the forearm and covering it with a patch for 24 hours.

After application, close the package and store at room temperature in a dry location away from sunlight and heat sources.

Avoid mixing with different substances not listed in the instructions. Avoid contact with the eyes, mucous membranes, and broken, irritated or diseased skin.

In case of contact with eyes, rinse thoroughly with water.

No danger under normal use conditions.

Do not swallow.

Keep out of reach of children.



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