



3D Shield

Antioxidant formula truly are the stars in your skincare regimen: they should have the power to protect your skin from the harmful effects of *Exposome*, that is the set of external factors that accelerate aging along with pollution, UV rays, Blue Light, stress and so on. This super antioxidant serum is enhanced with a powerful concentrated active ingredient and is the best to use in the morning, after your cleanser and toner and before moisturizer and sunscreen. It delivers a layer of protection that shields against blue ray, pollution and UV. Let your skin feel perfectly protected all day long!

Inside the Formulation

BRONTIDE BIO-BG

Naturally sourced Brontide butylene glycol is a high-performance ingredient. It's a great humectant and boosts preservative efficacy. It also can be used to add texture to a lotion or be used as a stabilizer for extracts. Brontide is made from a sustainable fermentation process which converts renewable plant sugars into the world's highest purity butylene glycol, eliminating the need to use crude oil feedstock.

AGENAJEL 20.383

AGENAJEL 20.383 is a rheology modifier and creaminess enhancer in aqueous applications, is a cook up starch with reduced gelatinization temperature. It shows shear-thinning effects with rapid viscosity recovery.

GEOGARD ECT

Geogard® ECT preservative is a highly efficacious broad-spectrum antimicrobial, which was designed to protect the integrity of personal care products. It is comprised of several non-traditional ingredients, which have wide global approvals and are easy to use within formulation. ECOCERT/COSMOS-certified and NPA-accepted and vegan-compliant.

ACTIPHYTE™ ACAI BERRY GL 100 NP

Its omega fatty acids help revitalize dry skin, improving its hydration and maintaining a healthy looking skin. Its Vitamins A, C, and E aid in the regeneration of the skin, preventing early signs of aging and illuminating it.

POLYALDO 10-2-P

The natural polyglycerylester can replace various ethoxylated emulsifiers. In conjunction with Polyaldo® 6-2-S or alone; this versatile emulsifier is able to stabilize O/W-lotions and O/W-creams even at high electrolyte loadings; ECOCERT, NATRUE and Soil Association approved.

MARULA OIL

A high natural antioxidant content oil derived from Marula kernels. Marula Oil has also been found to significantly improve skin hydration and smoothness, showing that it is absorbed well through the skin. The combination of high nutritional value and excellent stability makes it an ideal choice for modern cosmetic formulas.

MACKADERM LIA

It's a silicone like sensorial profile and outstanding performance on dry state makes it suitable for hair care formulations. Moreover, it provides a light, non-greasy texture to the hair.



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SCREEN LIGHT BLOCK

ScreenLight™ Block,” provides a powerful defensive shield against the visible skin aging properties of blue light and more. This ingredients that help to protect skin against the visible effects of environmental stress factors. Reduces the appearance of dark spots, resulting in skin that appears more evenly toned. Reduces the appearance of fine lines and wrinkles. Helps prevent increased melanin production from exposure to visible light and pollution. Helps to protect skin against the visible effects of light exposure.

FIBROSILK POWDER

Fibro-Silk Powder is a film-forming, moisturizing silk protein fibre that is supplied in powder form. It has the ability to hold and retain moisture and to entrap oil. It will therefore find application in cosmetic formulations for oily skin. Despite its insolubility, silk can be incorporated into shampoos to enhance hair shine by dispersing Fibro-Silk Powder in the surfactant system.



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Formulation reference : 08112018.1

Phase	Raw Material	INCI	%w/w	Supplier
A	Brontide BIO-BG	Butylene Glycol	4.00	Genomatica
A	Agenajel 20.383	Hydroxypropyl Starch Phosphate	3.50	Agrana
A	Deionised Water	Aqua	73.56	
A	Geogard ECT	Benzyl Alcohol, Salicylic Acid, Sorbic Acid, Glycerin	1.00	Lonza
A	Actiphyte™ Acai Berry GL 100 NP	Glycerin, Aqua, Euterpe Oleacea Fruit Extract	3.00	Active Organics
B	Polyaldo 10-2-P	Polyglyceryl-10 Dipalmitate	4.50	Lonza
B		Cetearyl Alcohol	1.00	
B		Glyceryl Stearate	0.60	
B	Marula Oil	Sclerocarya Birrea Seed Oil	1.50	Lonza
B	Mackaderm LIA	Isoamyl Laurate	2.50	Solvay
B	Screen Light Block	Physalis Alkekengi Calyx Extract (and) Caprylic/Capric Triglyceride (and) Beta-Carotene	2.50	Lonza
C	Prof. Rose Mist 236	Parfum	0.20	IFF
C	Fibro Silk Powder JP	Silk Powder	2.00	Lonza
D		Aqua, Sodium Hydroxide	0.14	

Manufacturing Instructions

- Mix the components of PHASE A, until dispersion, then heating at 70-75°C.
- Premix the components of PHASE B by heating at 70-75°C.
- Add PHASE B into PHASE A and emulsifier for 20 minutes, then cool.
- When reached 30°C add components of PHASE C into PHASE AB, mix until uniformity.
- Finally adjust pH.

Specification

pH	5.61
Stability Testing	@40°C: 3 months; @25°C: 3 months; @5°C: 3 months
Viscosity	13640 cPs (spindle 5; 10 rpm) Brookfield DV-1, 1 minute @ 25°C
Appearance	Light Yellow Soft Emulsion

Formulation developed by Azelis Personal Care



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