

BIONAP  
BIOACTIVE NATURAL PRODUCTS



CYNAGE™

# FORMULATION BOOKLET





## ENJOY CITY LIFE – DAILY CREAM

95.8%\* NATURAL-BASED INGREDIENTS



## URBAN DEFENSE – LIGHT CREAM GEL

92%\* NATURAL-BASED INGREDIENTS



## RADIANCE REVEALING SERUM

98.1%\* NATURAL-BASED INGREDIENTS



## PROTECT & GLOW ESSENCE

95.8%\* NATURAL-BASED INGREDIENTS

\*Natural Origin Content calculated at the best of our knowledge in accordance with our understanding of ISO standard 16128. The content was calculated with suppliers' information on naturalness when available or otherwise with our estimations.



CYNAGE™





# ENJOY CITY LIFE DAILY CREAM

Daily cream infused with **CYNAGE™**, an active botanical extract that protects skin from photo-pollution aging thanks to its capability to strengthen the cutaneous antioxidant defenses.

PHASE	INCI NAME EU/PCPC	TRADE NAME	%	
<b>A</b>	Aqua/water	-	73,25	
	Sodium phytate, alcohol, water	-	0,1	
<b>B</b>	Glycerin	-	3	
	Hydroxyacetophenone	-	0,5	
	Xanthan gum	-	0,2	
<b>C</b>	Caprylic/Capric Triglyceride	-	2	
	Dicaprylyl ether	-	3	
	Ethylhexyl stearate	-	5	
	Pentaerythrityl Distearate	-	2	
	Glyceryl stearate citrate	-	1,8	
<b>D</b>	Aqua/water	-	4,5	
	<b>Cynara scolymus (artichoke) leaf extract, Maltodextrin</b>	<b>CYNAGE™</b>	<b>1,5</b>	
<b>E</b>	Tocopherol	-	0,1	
	Phenoxyethanol (and) Benzoic Acid (and) Dehydroacetic Acid (and) Ethylhexylglycerin	-	1,2	
	<b>F</b>	Hydroxyethylacrylate/Sodium Acryloyldimethyltaurate Copolymerand Polyisobutene and PEG-7 Trimethylolpropane CoconutEther	-	1,5
<b>G</b>	Synthetic Fluorophlogopite, Titanium Dioxide, Tin Oxide	-	0,25	
<b>H</b>	Parfum/fragrance	-	qs	
<b>I</b>	Sodium hydroxide (30%), water	-	0,1	

## MANUFACTURING PROCESS:

Weigh components of phase A and C, separately, and heat up to 80°C. Create a slurry with ingredients of phase B and add to phase A once this reaches 80°C. Add phase C to AB under stirring and homogenize at a medium-high speed. Start cooling under stirring and below 45°C add phase D. Add phase E, one ingredient at a time. Add phase F and stir until the polymer is fully dispersed. Add phase G under stirring. Add phase H under stirring. Verify the pH and adjust to 5.2-5.8 with phase I.

## CHEMICAL/PHYSICAL CHARACTERISTICS:

**Appearance:** white emulsion

**pH:** 5.5

**Viscosity:** 11760 cP, 30 rpm, spindle SP-10, T: 25±2°C (IKA ROTAVISC ME-VI)

**Stability:** passed 3 months at RT and 45°C.



# URBAN DEFENSE LIGHT CREAM GEL

Light cream gel to prepare skin counteracting urban pollution. It boosts the antioxidant cutaneous defenses thanks to **CYNAGE™** that protects skin from environmental exposome aging.

PHASE	INCI NAME EU/PCPC	TRADE NAME	%
<b>A</b>	Aqua/water	-	68,85
	Hydroxyacetophenone	-	0,5
	Xanthan gum	-	0,2
	Propanediol	-	5
	Pentylene glycol	-	3
	Tetrasodium glutamate diacetate	-	0,2
<b>B</b>	Polyglyceryl-3 Methylglucose Distearate	-	2
	Diethylhexyl sebacate	-	5
	Coco Caprylate	-	5
	Prunus amygdalus oil	-	1,5
<b>C</b>	Acrylamide/Sodium Acryloyldimethyltaurate Copolymer and C15-19 Alkane and Polyglyceryl-10 Laurate and Polyglycerin-10	-	1,2
<b>D</b>	Aqua/water	-	4,5
	<b>Cynara scolymus (artichoke) leaf extract, Maltodextrin</b>	<b>CYNAGE™</b>	<b>1,5</b>
<b>E</b>	Phenoxyethanol, ethylhexylglycerin	-	1
	Tocopherol	-	0,1
	Parfum/fragrance	-	0,15
<b>F</b>	Synthetic Fluorophlogopite, Titanium Dioxide, Tin Oxide	-	0,2
<b>G</b>	Citric acid (50%), water	-	0,1

## MANUFACTURING PROCESS:

Weigh components of phase A and B, separately, and heat up to 75°C. Then, add phase B to A under stirring and homogenize at a medium-high speed. Start cooling and add phase C. Keep under stirring until the polymer is fully dispersed. Below 45°C, add the premixed phase D. Then, add phase E, one ingredient at a time. Add phase F under stirring. Verify the pH and adjust to 5.2-5.8 with phase G. Homogenize again.

## CHEMICAL/PHYSICAL CHARACTERISTICS:

**Appearance:** white fluid cream gel

**pH:** 5.4- 5.5

**Viscosity:** 1674 cP, 100rpm, spindle SP-09, T: 20±2°C (IKA ROTAVISC ME-VI)

**Stability:** on going. Passed 1 month at RT and 45°C.



# RADIANCE REVEALING SERUM

Lightweight serum enriched with **CYNAGE™**, a botanical active ingredient from artichoke, clinically proven to counteract urban pollution, enhancing skin glowing and delivering a “younger skin effect”

PHASE	INCI NAME EU/PCPC	TRADE NAME	%
<b>A</b>	Aqua/water	-	85,65
	Propanediol	-	2
	Synthetic Fluorphlogopite, Titanium Dioxide, Tin Oxide	-	0,15
	Sodium phytate, aqua, alcohol	-	0,2
<b>B</b>	Tamarindus Indica seed gum	-	1
<b>C</b>	Xanthan Gum (and) Lecithin (and) Sclerotium Gum (and) Pullulan	-	1
<b>D</b>	Aqua/water	-	4,5
	<b>Cynara scolymus (artichoke) leaf extract, Maltodextrin</b>	<b>CYNAGE™</b>	<b>1,5</b>
<b>E</b>	Cetearyl Isononanoate	-	2
	Coco-caprylate	-	1
	Phenoxyethanol, ethylhexylglycerin	-	1
	Parfum/fragrance	-	qs

## MANUFACTURING PROCESS:

Wet the pigments with propanediol and then add water and the chelating agent. Add phase B under stirring and let the polymer swell. Once the gel is homogeneous, add phase C and stir vigorously until homogeneity. Add the premixed phase D. Combine ingredients of phase E and add to phase ABCD. Verify the pH and adjust to 5.2-5.8.

## CHEMICAL/PHYSICAL CHARACTERISTICS:

**Appearance:** ivory fluid emulsion with pearlescent appearance

**pH:** 5.4-5.6

**Viscosity:** 808 cP, 100 rpm, spindle SP-09, T: 20±2°C (IKA ROTAVISC ME-VI)

**Stability:** on going. Passed 1 month at RT and 45°C.



# PROTECT & GLOW ESSENCE

Skin essence inspired by Asian skincare. It is a lightweight fluid gel infused with artichoke extract, **CYNAGE™** to protect skin from urban pollution and enhance its glow.

PHASE	INCI NAME EU/PCPC	TRADE NAME	%
<b>A</b>	Aqua/water	-	83,45
	Propanediol	-	5
	Hydroxyacetophenone	-	1
	Tetrasodium glutamate diacetate	-	0,2
	Caesalpinia spinosa gum	-	0,05
	Polyacrylate Crosspolymer-6	-	0,2
<b>B</b>	Aqua/water	-	4,5
	<b>Cynara scolymus (artichoke) leaf extract, Maltodextrin</b>	<b>CYNAGE™</b>	<b>1,5</b>
<b>C</b>	Water, Citrullus Lanatus (Watermelon) Fruit Extract, Chenopodium Quinoa Extract, Urea, Sucrose, Glycerin, Sodium Lactate, Sodium PCA	-	1
	Sodium benzoate, potassium sorbate, water	-	1
	CI 19140	-	qs
<b>D</b>	Polysorbate 20	-	2
	Tocopherol	-	0,1
	Parfum/fragrance	-	qs

## MANUFACTURING PROCESS:

Combine ingredients of phase A and stir until homogeneous.  
Add premixed phase B.  
Add phase C, one ingredient at a time.  
Premix components of phase D and add to ABC.  
Verify the pH and adjust to 5-5.5.

## CHEMICAL/PHYSICAL CHARACTERISTICS:

**Appearance:** pale yellow translucent fluid

**pH:** 5.3

**Stability:** on going. Passed 1 month at RT and 45°C.