# Elage is a 100 % nature identical and nature-derived skin lightening agent.

#### **Main Functions**

- Lightening of the skin tone
- Balancing of the skin tone
- Reduction of hyperpigmented spots
- ▶ Reduction of red spots

## **Specifications and Characteristics**

INCI	Ellagic Acid
CAS REG. N°	476-66-4
APPEARANCE	Light beige or light yellow powder
PURITY	≥ 99.0 %
RECOMMENDED PH OF USE	3.0►5.5
RECOMMENDED USE LEVEL	0.1 ► 1.0 %
<b>REGULATORY STATUS</b>	Globally approved
ORIGIN	100 % nature-derived
CHEMICAL STUCTURE	0

**CHEMICAL STUCTURE** 



# Visible spot reduction D0/D28





- Skin Care / Face CareSun Care
- Make up / Concealers



## Minasolve<sup>®</sup> is a brand of Minafin<sup>®</sup> Group

The Minafin<sup>®</sup> Group, whose affiliates develop and manufacture active pharmaceutical ingredients, organic intermediates and specialty fine chemicals for the life science industries and technical applications is organized around 5 brands, each dedicated to specific end-users or chemical technologies :

▶ Minakem®

- Pressure Chemical<sup>®</sup>
- Minasolve<sup>®</sup>
- Minascent<sup>®</sup>
- ▶ Pennakem®

Serving market leaders as well as emerging players, we support our customers' efforts to improve the quality of life in the global community by:

- Improving our chemistry and operational excellence today
- Creating and innovating for tomorrow
- Driving our enterprises together to go beyond expectations





## Nature-derived & nature identical



Skin radiance enhanced & spot removal







green solving attitude

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### Self-assessment

after 28 days of application at 0.5% use-level



## **Application in cosmetic formulations**

Elage is generally compatible with all common cosmetic ingredients. At pH > 6 it can lead to a yellow coloration, due to the formation of a coloured salt. Elage will not dissolve under neutral conditions, which has no negative impact on its activity. Like any common pigment, Elage is formulated in cosmetics under a dispersed state. The ingredient is preferably added to aqueous phases. Pre-mixing with wetting agents may help to ensure a uniform dispersion. High shear mixing is recommended.

The addition of **PEG-8 (4-6%)** helps to disperse Elage in water phase.

The addition of TiO<sub>2</sub> helps to get a white cream (4% recommended).

Since Elage is lowering the levels of protective melanin inside the skin, it is recommended to formulate it in combination with broad spectrum UV-filtering sunscreen.

## **Guidance formulation**

### Radiance Serum

Phase	<b>Raw Material</b>	INCI name	%
Α	Emulgade 165 <sup>(2)</sup>	Glyceryl Stearate (and) PEG-100 Stearate	3,00
	Lanette O <sup>(2)</sup>	Cetearyl Alcohol	1,50
	Cetiol C5 <sup>(2)</sup>	Coco-Caprylate	2,00
	Myritol 318 <sup>(2)</sup>	Caprylic/Capric Triglycerides	4,00
	Massocare Sil DM 350 (3)	Dimethicone	1,20
	Bioxan SFT50 <sup>(3)</sup>	Helianthus Annuus Seed Oil (and) Tocopherol	0,30
В	Glycerin 99,5% (2)	Glycerin	3,00
	Xanthan Gum Mesh 80 <sup>(3)</sup>	Xanthan Gum	0,20
C	Eau déminéralisée	Aqua (Water)	Qsp
	Elage (1)	Ellagic Acid	0,50
	Polyglycol 400 <sup>(3)</sup>	PEG-8	4,00
	Salicylic Acid	Salicylic Acid	0,50
D	Fresh'in Green+ (1)	Pentylene Glycol (and) Methyl Diisopropyl Propionamide	0,30
E	E-Leen Green B <sup>(1)</sup>	Pentylene Glycol (and) Aqua (Water) (and) Sodium Benzoate (and) Benzoic Acid	3,00

#### Manufacturing process

- 1. Mix all ingredients from Phase A and heat at 75°C.
- 2. Prepare Phase B and Phase C separately.
- 3. Mix Phase B and Phase C and Heat at 75°C.
- 4. Mix Phase B and Phase C at Rotor Stator for 2 minutes. then add Phase A.
- 5. Emulsify and decrease T°C under mixing.
- 6. Add Phase D then Phase E under mixing.

#### **Properties, stability and** microbiology

Meets Criteria A / ISO 11930

**pH:** 4.5 - 5.0

#### **Raw materials suppliers**

<sup>(1)</sup>Minasolve Aspect: Off white fluid emulsion (2) BASE <sup>(3)</sup>Quimica Masso Stable 4 weeks room T°C, 4°C, 45°C.

## **Guidance formulation Brightening Cream**

Phase	<b>Raw Material</b>	INCI name	%
	Emulgade 165 <sup>(2)</sup>	Glyceryl Stearate (and) PEG-100 Stearate	6,00
	Lanette O <sup>(2)</sup>	Cetearyl Alcohol	3,00
	Cetiol C5 (2)	Coco-Caprylate	5,00
	Myritol 318 <sup>(2)</sup>	Caprylic/Capric Triglycerides	3,00
Α	Massocare Sil DM 350 <sup>(3)</sup>	Dimethicone	1,20
	Uvinul A + B (2)	Ethylhexyl Methoxycinnamate (and) Diethylamino Hydroxybenzoyl Hexyl Benzoate	10,00
	Bioxan SFT50 (3)	Helianthus Annuus Seed Oil (and) Tocopherol	0,30
в	Glycerin 99,5% (2)	Glycerin	2,00
В	Xanthan Gum Mesh 80 <sup>(3)</sup>	Xanthan Gum	0,30
	Eau déminéralisée	Aqua (Water)	Qsp
~	Elage (1)	Ellagic Acid	0,50
C	Polyglycol 400 <sup>(3)</sup>	PEG-8	4,00
	Citric Acid	Citric Acid	0,05
D	E-Leen Green B (1)	Pentylene Glycol (and) Aqua (Water) (and) Sodium Benzoate (and) Benzoic Acid	3,00

#### **Manufacturing process**

- 1. Mix all ingredients from Phase A and heat at 75°C.
- 2. Prepare Phase B and Phase C separately.
- 3. Mix Phase B and Phase C and Heat at 75°C.
- 4. Mix Phase B and Phase C at Rotor Stator for 2 minutes, then add Phase A.
- 5. Emulsify and decrease T°C under mixing.
- 6. Add Phase D under mixing.

Properties, stability and	Raw materials suppliers
microbiology	<sup>(1)</sup> Minasolve
Aspect: Off white viscous emulsion	<sup>(2)</sup> BASF
<b>pH:</b> 5.0 – 5.5	<sup>(3)</sup> Quimica Masso
Stable 4 weeks room T°C, 4°C, 45°C.	
Meets Criteria A / ISO 11930	

The given information is accurate to the best of our knowledge. Customers are advised to perform their own studies on the usefulness of any ingredient for a particular application. Any recommended usage information is only provided as indication, and should not be considered as recommendation to violate of any laws, patents, or official regulations dealing with manufacture, composition, local procedures, product design, or end usage



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