Development Formulation

Pollution defence pressed serum with CITYSTEM™(*) SE0004V

(*)Patent Pending

Weirdest. Texture. Ever. This emulsion is neither a cream nor a gel. It is a super concentrated serum that looks like a gel but which is rich like a cream. The special combination of **Volarest™ FL**, **Viscoptima™SE** and gelling agents create this special jelly texture. On your skin, it glided on smoothly, transforming into a velvety and fatty-like texture, and left the face feeling supple, but not oily or weighed down. And this pressed serum, manufactured with a cold process to preserve Energy of the Planet, features **CITYSTEM™**, a plant extract produced by an eco-designed process and dedicated to fight visible and invisible pollution damage of the skin. **CITYSTEM™** protects, removes, strengthens and repairs the skin to leave it smooth and flawless. A touch of magic and wonder is also added to this formulation with **Crodarom® Elfe Flower™**, a perennial plant used in Traditional Chinese Medicine for more than a thousand years.

Ingredient/INCI Name	Functionality	% w/w
Part A		
Water Deionised (Aqua)	-	To 100
Part B		
Glycerin	Humectant	5.00
Keltrol® CG-SFT (Xanthan Gum) [4]	Rheology modifier	0.10
Supercol® GF (Cyamopsis Tetragonoloba (Guar) Gum) [5]	Rheology modifier	0.05
Viscogum® BCR 13/250 (Locust Bean Gum) [6]	Rheology modifier	0.40
Part C		
Potassium Sorbate	Preservative	qs
Part D		
Volarest™ FL (Acrylates/Beheneth-25 Methacrylate Copolymer)[1]	Rheology modifier	1.50
Part E		
CITYSTEM™(Glycerin (and) Marrubium Vulgare Extract)[2]	Pollution defence active	2.00
Part F		
Crodarom® Elfe Flower™ (Glycerin (and) Water (and) Epimedium Grandiflorum Flower/ Leaf/Stem Extract) [3]	Fairy tale concept botanical	0.50
Part G		
Cromollient™ DP3A (Di-PPG-3 Myristyl Ether Adipate)[1]	Emollient	1.00
Crovol™ A70 (PEG-60 Almond Glycerides)[1]	Emollient	2.00
Viscoptima™ SE (Sodium Polyacrylate (and) Ethylhexyl Cocoate (and) PPG-3 Benzyl Ether Myristate (and) Polysorbate 20)[1]	Multifunctional rheology modifier	3.00
Phenoxyethanol	Preservative	qs
Part H		
Tween™ 20 (Polysorbate 20)[1]	Emulsifier	0.50
Eclat de vert (Fragrance) [7]	Fragrance	0.15
Part I		
Water Deionised (Aqua)	-	2.00
Sodium Hydroxide 30%	pH Adjuster	0.20

Suppliers: **1: Croda 2: Sederma 3: Crodarom** 4:CP Kelco 5: Ashland 6: Cargill 7:MLW

Procedure:

Weigh Part A. Weigh Part B and mix. Pour Part B into Part A with rotor stator stirring (s=500 rpm). Weigh and add Part C into Part A+B, homogenise well. Weigh and add Part D to the previous part, homogenise well. Weigh and add Part E to the previous part, homogenise well. Weigh and add Part F to the previous part, homogenise well. Weigh Part G, homogenise well. Weigh Part H, homogenise well. Pour Part H into to Part G, homogenise well. Add Part G+H to the previous part, homogenise well during 1 hour. Adjust pH above 5.70 with Part I, homogenise well.

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Appearance: White Jelly emulsion; pH: 5.70± 0.5; Viscosity: 250.000 ± 10% Sp.93, 2.5rpm, 1 min, 25°C, Brookfield DV-I Prime
Stability: 3 months at 4°C, 25°C, 40°C and 1 month at 50°C
Centrifugue 10min @ 3000rpm and 1 x -80ºC/+25ºC 24 hour freeze-thaw cycle and autoclave 20min @120°C

Keltrol is a registered trademark of CP Kelco, a Huber Compagny.
Supercol is a registered trademark of Ashland.
Viscogum is a registered trademark of Cargill.

This formulation was developed in France. Contact your local sales representative with enquiries as ingredient availability can vary by region.

Non-warranty
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