

BEAUTÉ BY ROQUETTE® GA 290



Beauté by Roquette[®] GA 290 is a plant-based PolyHydroxyAcid (PHA), adapted to all skin types especially to sensitive skin.

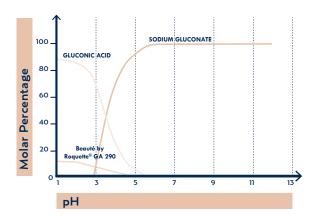
Beauté by Roquette[®] GA 290 is a multifunctional ingredient: preservative booster, anti-ageing, anti-acne & peeling agent.

BENEFITS AT A GLANCE:

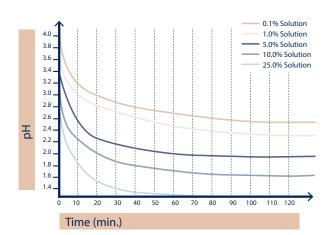
- Anti-ageing agent by reducing wrinkles and refining skin texture
- Anti-acne agent
- Preservative booster
- Gentle exfoliator and peeling agent
- Heavy metal chelator (EDTA substitute)
- pH regulator

SPECIFIC FEATURES:

- Very fine particle size
- Non-irritating
- Preservative enhancer when used in a certain pH range



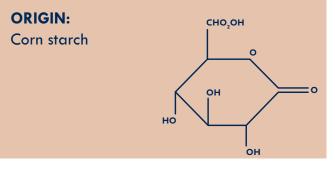
Molar percentage of the 3 constituents as a function of pH by dissolution of Beauté by Roquette $^{\circledast}$ GA 290



Hydrolysis of Beauté by Roquette[®] GA 290 at 25°C



PHYSICAL ASPECT: White odourless dry crystalline powder



RECOMMENDED APPLICATIONS:

All cosmetics applications

RECOMMENDED USE LEVELS:

0.5 to 15%

pH OF USE:

All pH except for anti-acne / peeling effect $(\sim 3 - 4)$

APPLICATION GUIDELINES:

Incorporate into the water phase

ECOLOGICAL PROFILE:

Derived from 100% vegetal feedstock ISO 16128 In^{*}=1 Readily biodegradable (OECD 301)

* Natural index = Number of natural carbon atoms/Total number of carbon atoms (natural 14 & non natural)

FORMULATION EXAMPLE:

ANTI-AGE SERUM CONCENTRATE

REGULATORY STATUS:

Conform to:

Europe - European Cosmetic Regulation 1223/2009 and its amendments

USA - FD&C Act - 21 CFR 700 to 740

China - Hygienic Standard for Cosmetics: listed IECIC 2015

Japan - Regulation for cosmetics

Non exhaustive list of countries, please contact us for additional information.

	INCI NAME	COMMERCIAL NAME (SUPPLIER)	%
	Aqua	Demineralised water	Up to 100
PHASE A	Starch acetate (and) Hydroxyethyl cellulose (and) Xanthan gum	Beauté by Roquette® DS 112 (Roquette)	3.00
	Sorbitol	Beauté by Roquette® PO 160 (Roquette)	2.00
PHASE B	Glyceryl stearate	Geleol FPF (Gattefossé)	0.50
	Glyceryl stearate citrate	Dermofeel GSC (Evonik)	3.00
	Caprylic/Capric Triglyceride	Labrafac CC (Gattefossé)	4.00
PHASE C	Gluconolactone	Beauté by Roquette® GA 290 (Roquette)	0.20
	Aqua	Demineralised water	10.00
PHASE D	Sodium Hyaluronate	Cristalhyal (Soliance)	0.25
PHASE E	Phenoxyethanol (and) Chlorphenesin (and) Glycerin	Microcare PHC (Thor)	1.00

PROCESS

1/ Prepare Phase A (add PO 160 and then DS 112 into water) under stirring and heat up to 80°C. Maintain agitation until a homogeneous gel obtained (minimum 40 minutes).

2/ Prepare Phase B: mix all ingredients and heat up to 80°C under agitation.

- 3/ Emulsion: At 80°C, add Phase B into Phase A while stirring (defloculator 2000-3000 rpm). Maintain temperature and agitation for 10 minutes.
- $4/\operatorname{Cool}$ down to room temperature and add successively Phase C, D and E.

FORMULATION SPECIFICATIONS			
ASPECT / COLOUR / ODOUR	WHILE FLUID CREAM		
рН	3.8 - 4.2		
VISCOSITY	BROOKFIELD, SP6, 20 RPM, 1 MIN: 21 000 - 25 000 mPa.s		
STABILITY AT 40°C & 50°C	1 MONTH AT 50°C AND 3 MONTHS AT ROOM TEMPERATURE AND 40°C		

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