



ROQUETTE
BEAUTÉ



COSMOS
APPROVED

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

INCI NAME:

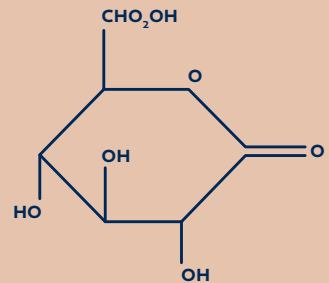
Gluconolactone

PHYSICAL ASPECT:

White odourless dry crystalline powder

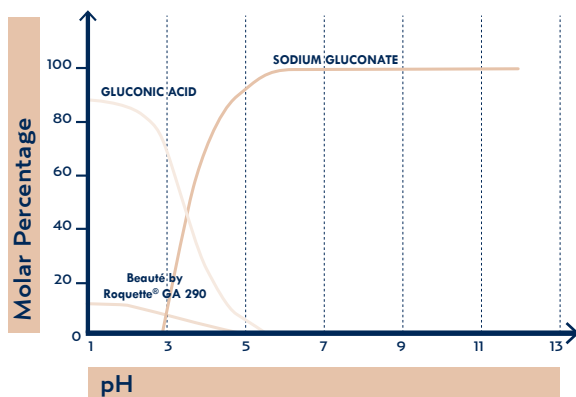
ORIGIN:

Corn starch

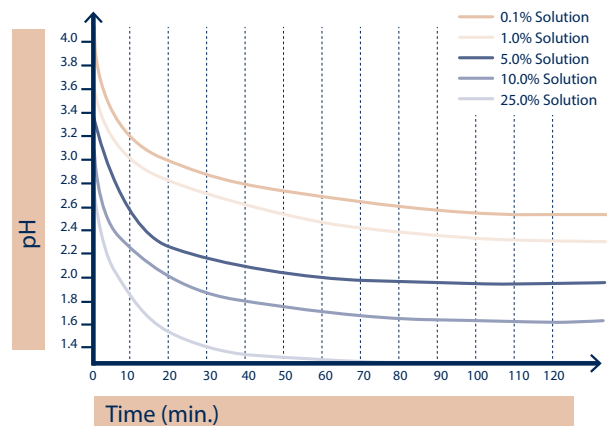


SPECIFIC FEATURES:

- 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® GA 290



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

RECOMMENDED APPLICATIONS:

All cosmetics applications

RECOMMENDED USE LEVELS:

0.5 to 15%

pH OF USE:

All pH except for anti-acne / peeling effect
(~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

	INCI NAME	COMMERCIAL NAME (SUPPLIER)	%
<u>PHASE A</u>	Aqua	Demineralised water	Up to 100
	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
<u>PHASE B</u>	Glyceryl stearate	Geleol FPF (Gattefossé)	0.50
	Glyceryl stearate citrate	Dermofeel GSC (Evonik)	3.00
	Caprylic/Capric Triglyceride	Labrafac CC (Gattefossé)	4.00
<u>PHASE C</u>	Gluconolactone	Beauté by Roquette® GA 290 (Roquette)	0.20
	Aqua	Demineralised water	10.00
<u>PHASE D</u>	Sodium Hyaluronate	Cristalhyal (Soliance)	0.25
<u>PHASE E</u>	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/ Cool down to room temperature and add successively Phase C, D and E.

FORMULATION SPECIFICATIONS

ASPECT / COLOUR / ODOUR	WHILE FLUID CREAM
pH	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