

# ESSENTIAL GEL-CREAM

with Actigum™ Care, Florasun™ 90,  
BotaniButter™ and L22™



Discover **Actigum™ Care**, a revolutionary rheology modifier designed to enhance gel-cream formulations in personal care. Experience a unique blend of functionality and sensory delight as Actigum™ Care imparts a creamy, velvety texture, redefining the tactile experience of your skincare products. This advanced modifier excels in stabilizing emulsions, ensuring lasting product integrity. Elevate your formulations with Actigum™ Care, where optimal performance meets a distinctive touch of excellence in every application

Phase	Trade Name	INCI	Supplier	%WT
A	Deionized water	Aqua	---	q.s.
	Zemea® Propanediol	Propanediol	IMCD	5.00
B	<b>Actigum™ Care</b>	<b>Hydroxypropyl Starch Phosphate, Sclerotium Gum</b>	<b>Cargill</b>	<b>3.00</b>
C	Pureact Gluco C	Coco-Glucoside	Innospec	0.40
D	<b>Florasun™ 90</b>	<b>Helianthus Annuus (Sunflower) Seed Oil</b>	<b>Cargill</b>	<b>4.00</b>
	<b>BotaniButter™</b>	<b>Behenyl/Oleyl Behenate/Oleate Esters</b>	<b>Cargill</b>	<b>3.00</b>
	<b>L22™</b>	<b>Jojoba Oil/Macadamia Seed Oil Esters (and) Squalene (and) Phytosteryl Macadamiate (and) Phytosterols (and) Tocopherol</b>	<b>Cargill</b>	<b>1.00</b>
E	Fleur de Pecher	Fragrance	Aromat'Easy	0.15
	Euxyl K712	Sodium Benzoate (and) Potassium Sorbate (and) Aqua	Ashland	1.00
F	Citric Acid (50%)	Citric Acid	VWR	0.08

## CHARACTERISTICS

- **pH:** 5.46
- **Viscosity:** 8200 mPa.s (Brookfield RVDV 2T, RV5, 20 rpm, 1min)
- **Appearance:** white, creamy, slightly jelly, quite smooth
- **Stability:** passed 2 months at RT and 45°C + 3 Freeze Thaw cycles

## PROCESS

1. Heat the water phase at 50°C
2. Weight all the ingredients of phase D and heat it to 50°C
3. Weight the propanediol in the main beaker then the water
4. Disperse the Actigum™ Care in the phase A while mixing with a homomixer (IKA T25 digital Ultraturrax R/S head, 10000 rpm, 10min)
5. Add coco-glucoside (phase C) then phase D to phase A+B while mixing with IKA T25 digital Ultraturrax R/S head (10000 rpm, 15min) and maintaining at 50°C with a hot plate
6. Let the mixture cool down slowly to around 25-30°C with a blade (IKA Eurostar)
7. Add phase E under slow stirring and mix until homogeneous
8. Compensate any water loss
9. Adjust the pH around 5.5 with phase F

## FORMULATION TIPS

- Actigum™ Care needs enough energy to be deployed. It's very important to adapt the mixing time with the batch size.
- Recommendation: at step 4, viscosity at D0 should be around 4800-5200 mPa.s



**PATENTS AND REGULATIONS** The information presented herein is intended to illustrate the possible technical applications of our products. However, since the use of this information and our products is beyond our control, any recommendations or suggestions are made without guarantee of warranty in each country and particularly in the absence of patent rights. In addition, we recommend that the user ensures that this product is in compliance with the local regulations in force, particularly in the country where the finished product is to be consumed. It is the responsibility of the user to comply with the patents and the regulations in force.

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