



Super Fresh Aqueous Day Cream

"Looks like butter, feels like a super fresh hydro-gel"

A day cream as rich as night cream, but gives a super fresh skin sensory. Also helps keep skin radiant, refreshed, moisturized and soft.

In this formulation, **Sensogel 200** provides:

- a surprisingly non-tacky, moisturizing sensory, a glossy texture and a smooth, spreading feeling.
- a **reduced cost** option for traditional high-viscosity creams that uses more water instead of waxes, and still offers a lighter sensory which cannot be achieved in high-wax creams.
- a stronger thickening power than the other thickeners on the market*
- a worry-free transfer from lab to manufacture due to a **steady viscosity dose response**, which is both time saving and economical

*In comparison with (Hydroxyethyl Acrylate/ Sodium Acryloyldimethyl Taurate Copolymer and Isohexadecane and Polysorbate 60).

By adjusting the dosage of Sensogel 200 in this formula (1.4% ~ 2.0%), it is easy to transfer from a face lotion to a face cream, or to a face butter, while still keeping the "**super-fresh sensory**" concept.

PhytoCare-HA CG 1M (Snow Mushroom extract active) creates a natural flexible hydration film on skin that restores the dry skin to its optimally hydrated and supple state.

Sensogel 200: 3-in-1 stable and ready-to-use associative thickener that can work as an emulsifier, a stabilizer, and a thickener for a wide range of **pH (2 – 12)** in O/W sunscreen preparation with a reduced amount of emulsifiers to provide light and **quick-absorbing** sensory, and a range of **textures** from sprays, lotions, creams and butters. It is also able to **thicken** 99% **Glycerin** with 1% Sensogel 200, making a water-soluble, petroleum-like viscous paste with non-tacky sensory. It is designed for skin care, sun care and hair conditioners.

PhytoCare-HA CG 1M [Snow Mushroom (Tremella Funiciformis Sporocarp) Extract]: **Natural substitute** of bacterially-fermented hyaluronic acid, with benefits such as moisture restoration, anti-oxidation, anti-aging flexible film formation and strong tolerance under various temperature, pH levels, and salt concentration.

Phase	INCI Name, (Trade Name)	Wt %	
A	Water	77.1	Process: 1) Mix Phase B by a propeller (below 50 C) into a homogenous solution, and then add it into Phase A. 2) Heat Phase (A+B) and Phase C separately at ~80 C to a homogenous solution. 3) Pour Phase C into the mixture of Phase (A+B) at ~80 C while mixing by a homogenizer at 4000 rpm. Continue mixing for 5 minutes. 4) Cool down to 50 C. 5) Add Phase D into the system and gently mix until the system cools down to 30 C. Adjust pH with 10% citric acid solution (pH 4.2~5.0).
	Disodium EDTA	0.05	
B	PhytoCare-HA CG 1M (Snow Mushroom Extract)	0.10	
	Glycerin	12.00	
C	Sunflower seed oil	3.00	
	Cyclopentasiloxane	1.00	
	Capric/Caprylic Triglyceride	2.00	
	Stearic Acid	0.50	
	Cetearyl Alcohol	0.75	
	Glyceryl Monostearate	0.75	
	Oleth-20	0.50	
	Sensogel 200	2.00	
D	Preservative	0.20	
	Fragrance	0.10	
Feature	Viscosity (cP) @ 5 rpm	98,800	pH 4.86



Ultimate thickening power of Sensogel 200. 2% of Sensogel 200 gives your cream a look of "butter" with viscosity up to 98800 (cP) at 5 rpm. In contrast, the prototype using CP-A* at the same dosage is a pourable lotion whose viscosity is ~ 54000 (cP) at 5 rpm. Even at extremely high viscosity, the 2% Sensogel 200 cream still has a fresher, less oily sensory than the 2% CP-A one.

In addition, even reduced to 1.6% Sensogel 200, the viscosity of this cream (67500 cP at 5 rpm) is still higher than the 2% CP-A's one. That means **Sensogel 200 is ~30% more effective in thickening power than CP-A.**

By increasing Sensogel 200, it's easy to make a spray (0.2%~0.7%), a lotion (0.8%~1%), a cream (~1.1%), or butter (3%-4%).

*CP-A: *Hydroxyethyl Acrylate/ Sodium Acryloyldimethyl Taurate Copolymer and Isohexadecane and Polysorbate 60.*