

Prototype
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Eat Well, Live Well.



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Hydrating Gel Serum

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This gel serum brings excellent hydration to the skin at both surface and stratum corneum levels. **Aquadew SPA-30B** provides a hydrating barrier at the skin's surface which attracts moisture from the air and keeps moisture in the skin. **Ajidew NL-50**, a component of the NMF, provides moisturization and helps increase microcirculation. **Prodew 600** which mirrors the amino acids and humectant content of the SC increases the water content of the SC, decreases TEWL, has an anti-wrinkle effect, and penetrates into the SC.

	Trade Name	INCI Name	Supplier	% w/w	Role of ingredient
A	DI Water	Aqua	-	73.25	Solvent
B	Zemea Propanediol	Propanediol	DuPont	3.00	Humectant
	Glycerin	Glycerin	-	2.00	Humectant
	Keltrol CG LAX-T	Xanthan Gum	CP Kelco	0.60	Viscosity Modifier
	Genuvisco CG-131	Carrageenan	CP Kelco	0.10	Viscosity Modifier
C	10% Calcium Chloride, Dihydrate Sol.	Calcium Chloride	-	0.75	Viscosity Modifier
D	Aquadew SPA-30B	Sodium Polyaspartate, Butylene Glycol, Disodium EDTA, Water	Ajinomoto	10.00	Amino acid based polymeric humectant
	Ajidew NL-50	Sodium PCA, Water	Ajinomoto	4.00	Amino acid based humectant
	Prodew 600	Betaine, Sodium PCA, Sodium Lactate, PCA, Serine, Alanine, Glycine, Glutamic Acid, Lysine HCL, Threonine, Arginine, Proline, Water	Ajinomoto	5.00	Amino acid cocktail - humectant
E	Benzyl Alcohol	Benzyl Alcohol	-	0.50	Preservative
	Potassium Sorbate	Potassium Sorbate	-	0.25	Preservative
	Sodium Benzoate	Sodium Benzoate	-	0.20	Preservative
	pH (50% Citric acid sol)		-	0.35	-

Procedure:

Predisperse the Keltrol and Genuvisco in the Propanediol and Glycerin (phase B). When well dispersed, add phase B to phase A and mix until completely dispersed. Add the Calcium Chloride solution in order to fully hydrate the Genuvisco. Add phase D in the order listed. Add phase E and mix until dissolved. Adjust pH with 50% Citric Acid solution q.s. to pH = 5.1-5.5

Stability: 4 weeks - Stable at 0°C, 40°C, 45°C, R.T, & Freeze Thaw - 3 cycles

Appearance: Clear gel **Viscosity:** 3,000-5,500 mPas (LV DV-I+, LV #3, 12 rpm) **pH:** 5.1-5.5



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