

Principal/Trade Name, INCI
Weight %
Phase A
Purified Water 79.01%

Versene NA2 Crystals 0.05%
Disodium EDTA

Glucono Delta Lactone 0.30%
Glucono Delta Lactone

L-Arginine 0.20%
Arginine
Phase B

Palmera® G997U 6.00%
Glycerin

Zemea® Propanediol 6.00%
Propanediol

GENUGEL® CG-130 Carrageenan 1.50%
Chondrus Crispus (Carrageenan)

CEKOL® 150 Cellulose Gum 2.00%
Cellulose Gum
Phase C
CaCl₂*2H₂O (5% solution) 2.00%
Calcium Chloride

AJIDEW® NL 50 1.00%
Sodium PCA, Water

RonaCare® Nicotinamide 0.50%
Niacinamide

D&C Red 33 (0.1% solution) 1.00%
Red 33

Ronastar® Golden Jewel 0.04%
Calcium Aluminum Borosilicate, Titanium Dioxide, Silica, Iron Oxides, Tin Oxide
Sodium Benzoate 0.20%
Sodium Benzoate
Potassium Sorbate 0.20%
Potassium Sorbate
Product Properties:
Appearance: Clear pink gel sheet with golden sparkles

pH: 6.0-7.0

Viscosity: NA

Stability: passed 50C (1 week), FT (5 cycles)

Procedure:

Phase A: Load the main tank with cold water and add Versene Na₂ Crystals. Mix to dissolve. Add Glucono Delta Lactone and mix well to dissolve. Sprinkle L-Arginine and mix well until the batch is clear .

Phase B: In a secondary vessel premix Glycerin, Zemea, GENUGEL® CG-130 Carrageenan and CEKOL®150 Cellulose Gum until the slurry is uniform and easy flowing, then add it slowly to phase A. Mix at high speed for 30-40 min or until the batch is homogeneous and free of lumps. Heat to 80-85C, lowering the mixing speed to avoid aeration.

Phase C: When the temperature reaches 80-85C, add CaCl₂*2H₂O and continue mixing. Start cooling to RT.

At 75-78C, add the rest of the ingredients in the indicated order , mixing thoroughly after each addition.

At 73-75C, pour the batch into molds and allow it to cool to RT.

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Glucono Delta Lactone is a Polyhydroxy acid (PHA) derived from gluconic acid that can be used as a natural exfoliant therefore having the ability to reduce the look of wrinkles. It is much more gentle to the skin than AHA's which are commonly used for this application. It also exhibits antimicrobial, chelating and moisturizing properties.

AJINOMOTO

L-Arginine is a typical basic amino acid with a cellular activatory effect. It is also a primary component of skin collagen and hair keratin. Because of the has a positively charged guanidine group, L-arginine is also widely used as a mild, natural neutralizer.

AJIDEW® NL-50 is a natural humectant derived from L-Glutamic acid. Known to be abundant in human skin as a component of NMF (Natural Moisturizing Factor), this humectant helps keep skin and hair fresh-looking.



Zemea® propanediol is a natural, skin-friendly, preservative-boosting alternative to petroleum-based glycols for formulators who desire versatile and innovative cosmetic ingredients. With its skin-friendly performance, including no irritation, enhanced moisturization and excellent aesthetics, Zemea® propanediol is ideal for skin care, hair care, deodorants, fragrances, and other cosmetic and personal care products. It can be used as a humectant, preservative booster, emollient, natural solvent, viscosity enhancer, hand-feel modifier and for botanical extraction and dilution. It can also be used as a component in various types of ingredients including a carrier for actives, botanical extracts, or fragrances, an ingredient in natural preservative systems, and for developing natural esters and ethers.



GENUGEL® CG-130 Carrageenan is a Kappa carrageenan. It is anionic water-soluble biopolymer that forms a firm brittle gel upon cooling that is transparent and thermally reversible. The gel strength and syneresis are influenced by the concentration of carrageenan and by the type and concentration of added salts. Gel texture can be modified by the incorporation of locust bean gum or other anionic gums.

CEKOL® I50 Cellulose Gum is a highly purified Sodium Carboxymethylcellulose obtain from natural cellulose . It provides a vast range of properties for many applications, enhancing the performance and stability of the final product. This product is a film former, thickener, stabilizer, or dispersant.



RonaCare® Nicotinamide is an extremely effective anti-aging ingredient with outstanding skin compatibility. It improves the skin barrier function through the reduction of TEWL. It positively impacts skin conditions by decreasing the appearance of skin redness. It enhances skin appearance and texture by stimulating collagen synthesis.

Ronastar® Golden Jewel cosmetic pigment is a golden sparkling powder. Ronastar® high performance pigments combine an extremely high chroma with sophisticated effects. They are based on calcium aluminum borosilicate and have a very clean mass tone. The two silverwhite pigments display extremely brilliant effects combined with rainbow-like multicolor highlights.