

Principal/Trade Name, INCI	Weight %
Phase A	
Purified Water	87.20%
Versene Na2 Crystals <i>Disodium EDTA</i>	0.05%
 KELTROL® CG-RD Xanthan Gum <i>Xanthan Gum</i>	1.00%
Phase B	
 Palmera® G997U <i>Glycerin</i>	5.00%
 GENU® LM-104 AS-Z Pectin <i>Pectin</i>	1.20%
Phase C	
CaCl2 dihydrate (5% solution) <i>Calcium Chloride , Water</i>	2.00%
 Glycine <i>Glycine</i>	1.00%
 AJIDEW® NL-50 <i>Sodium PCA, Water</i>	1.00%
Phase D	
Ethyl Alcohol DA-2A <i>Ethyl Alcohol</i>	1.00%
SZ 104161 Fresh Cut Stems <i>Fragrance</i>	0.05%
Optiphen™ BSB-N <i>Benzyl Alcohol ,Benzoic Acid ,Glycerin ,Sorbic Acid</i>	0.50%

Product Properties:

Appearance:	Viscous, slightly hazy gel
pH:	4.5-5.4
Viscosity:	20,000-40,000 cps
Stability:	passed FT (5 cycles)

Procedure:

Phase A: Load the main tank with water and start mixing at high speed . Add Versene Na2 Crystals and mix to dissolve. Sprinkle KELTROL® CG-RD Xanthan Gum in the water vortex, and mix well until the batch is clear and homogeneous.

Phase B: In a secondary vessel add Glycerin and GENU® LM-104 AS-Z Pectin and mix until the premix is free of lumps and easy-flowing.

Add the premix into the main batch and mix for 30-40 minutes. The batch will become thick and uniform. Reduce the mixing speed to avoid aeration. Heat the batch to 70-75C, then cool down to RT.

Phase C: At 70-75C, add CaCl2 dihydrate. The batch will start to gel. Mix well, further reducing the mixing speed to avoid aeration. The batch should be uniform and smooth before adding the rest of phase B ingredients. Add the rest of the ingredients, mixing well after each addition.

Phase D: In a secondary vessel, premix the Ethyl Alcohol with the Fragrance. When the temperature of the batch reached 35-40C, add the fragrance premix. Mix to incorporate. Add Optiphen™ BSB-N and mix well.

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KELTROL® CG-RD Xanthan Gum is an agglomerated transparent xanthan gum product designed specifically for use in cosmetics and other personal care applications where problems with poor dispersion capabilities preclude the use of a standard 80-mesh product. It is ideal for use in formulations where high clarity is desired. It also enhances the stability of emulsions, suspensions, and foams.



GENU® LM-104 AS-Z Pectin is a partly amidated low ester pectin extracted from citrus peel . It is a structure builder in personal care applications, as it gels in the presence of Ca²⁺.

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Glycine accounts for about one third of the amino acids which make up human skin collagen. Glycine is also well suited to hair care products since it works to make hair smoother when “finger-combed” as well as in general enhancement of hair aesthetics.

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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.