

Silk Serum

with Lysofix™ Liquid

Formulation: KPC/PD15010.01_HL14C013.09B

Phases	Ingredients	% w/w
A	Deionized Water	73.85
	Disodium EDTA	0.02
	Methylparaben	0.10
	Dipropylene Glycol	5.00
A2	Sodium Polyacrylate; Polyglycol ¹	0.03
	1,3-butanediol	3.00
A3	Deionized Water	14.85
	Acrylates/C10-30 Alkyl Acrylate Crosspolymer ²	0.08
	Triethanolamine	0.08
A4	Lysofix™ Liquid - Glycerin (and) Glycine soja (Soybean) Seed Extract	1.00
	PEG-17 Dimethicone ³	0.30
	Saccharide Isomerate (and) Aqua (and) Citric Acid (and) Sodium Citrate ⁴	0.50
B	Hydroxyacetophenone ⁵	0.50
	Phenoxyethanol	0.20
	PEG-60 Hydrogenated Castor Oil	0.10
	Beta Glucan	0.40

Total:100

Bold denotes products available from Kemin.

¹Barel Polyglycol BL-600MT - Barel Chemicals Inc.; ²Carbopol® Ultrez 21 Polymer - Lubrizol; ³Silsoft® 895 - Momentive; ⁴Pentavitin® - DSM Nutritional Ingredients, LLC; ⁵Symsave® H - Symrise

- Non-tacky residue
- Hydrating and soothing
- For everyday use



Manufacturing Process:

1. Weigh and adjust Phase A for mixing.
2. Add pre-mixed Phase A2 to Phase A and heat to 82 °C.
3. Homogenize for 10 minutes and then switch to low shear mixing.
4. Cool to 70 °C.
5. Add pre-mixed Phase A3 gel to Phase A. Mix until uniform.
6. Add ingredients of Phase A4 one after the another, allowing it to mix uniformly for 10 minutes.
7. At 45 °C, add pre-mixed Phase B and mix until clear and transparent.

Stability:

- Stable for 5 freeze-thaw cycles
- Stable for 3 months at 45 °C

Characteristics:

Appearance:	Clear and transparent gel
Color:	Light yellow
Odor:	Fragrance-free
pH:	Between 5.0 and 6.0 at 20 °C

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