

Velvety Smooth Lotion

Formulating design and advantages: Treat your body with this nourishing lotion. This lotion features the emulsifier **Kostol PGP**, which effectively stabilizes the emollients, while providing skin moisture. **Cera Bellina** acts as a secondary emulsifier, thickener, and stabilizer. **Cetyl Esters** and **Branched Kester Wax BK-40** both function as thickeners as well as add to the overall creamy feel.

Formula#: 7/17-106/814/197-1

<i>Trade Name</i>	<i>INCI Name</i>	<i>%</i>
Phase A		
Deionized Water	Aqua	68.1
Glycerin	Glycerin	3.0
Keltrol CG-SFT ⁵	Xanthan Gum	0.5
Phase B		
Kostol PGP¹	Polyglyceryl-3 Stearate (and) Beheneth-5	5.0
Cetyl Esters¹	Cetyl Esters	4.0
Cera Bellina¹	Polyglyceryl-3 Beeswax	3.5
Branched Kester Wax BK-40¹	C32-36 Isoalkyl Stearate	1.0
Lecinol S-10 ²	Hydrogenated Lecithin	0.4
Belsil PDM20 ³	Trimethylsiloxypheyl Dimethicone	4.5
Belsil DM 100 ³	Dimethicone	4.0
Phase C		
Ritacane IH ⁴	Isohexadecane	5.0
Optiphen ³	Phenoxyethanol, Caprylyl Glycol	1.0

Procedure: Premix glycerin and xanthan gum. Combine Phase A ingredients one at a time, mixing well after each addition, while heating the batch to 80-85 °C. Combine Phase B materials in a separate vessel, heat to 80-85 °C, and mix until uniform. Add Phase B to Phase A and mix at high speed and 80-85 °C until emulsion is smooth. Cool slowly at medium speed to 50 °C and add Phase C ingredients, and mix well.

Stability: One month at room temperature, one month at 45 °C, three freeze/thaw cycles.

Suppliers: 1. Koster Keunen, Inc.; 2. Barnet; 3. Brenntag Specialties; 4. Rita; 5. CP Kelco