SOLO STAR SERUM

with FiberDesign™ Citrus and BotaniButter™

Solo Star Serum introduces the solo appearance of **BotaniButter™** as the star emollient in this luxurious rich serum, while showcasing compatibility with key actives popular in the serum market. Together with **FiberDesign™ Citrus** to provide emulsion stability and a delightfully cool skin sensation, Solo Star Serum will add a touch of allure to your daily skin care routine!

Phase	Trade Name	INCI	Supplier	%WT
A	Deionized Water	Aqua	---	60.80
	Butylene Glycol	Butylene Glycol	Making Cosmetics	4.00
	Glycerin, USP	**Glycerin**	**Cargill**	**3.00**
	Vitamin B3 (Niacinamide), USP	Niacinamide	Making Cosmetics	5.00
B	**FiberDesign™ Citrus**	**Citrus Limon (Lemon) Peel Powder (and) Sclerotium Gum (and) Citrus Aurantifolia (Lime) Peel Powder**	**Cargill**	**0.50**
C	**BotaniButter™**	**Behenyl/Oleyl Behenate/Oleate Esters**	**Cargill**	**3.00**
	Emultop™ Velvet IP	**Lecithin (and) Glycine Soja (Soybean) Oil**	**Cargill**	**0.50**
	Vitamin C (tetrahexyldecyl ascorbate)	Tetrahexyldecyl Ascorbate	Making Cosmetics	2.00
	Actique® Ceramide	Ceramide NG	Jarchem Industries, Inc.	0.20
D	Sodium Hyaluronate Powder (1% Solution)	Sodium Hyaluronate (and) Water	TRI-K Industries, Inc.	20.00
	Euxyl® PE 9010	Phenoxyethanol (and) Ethylhexylglycerin	Schülke Inc.	1.00

CHARACTERISTICS

- **pH:** 5.0-6.0
- **Viscosity:** 39-56 kcP, Brookfield Digital Viscometer Model RVDV-E at RT, T-C, Spindle S93, 2.0rpm.
- **Appearance:** off-white serum/thin cream
- **Stability:** passed 2 weeks at 50C, 2 months stability at RT & 4 and 45°C, 3 cycles in F/T and H/C Process

PROCESS

1. Add ingredients of Phase A in main vessel in with moderate propellor agitation and begin heating to 70-75°C.
2. Transfer Phase A to moderate homogenization agitation and add Phase B at 70-75°C.
3. Add the ingredients of Phase C in a separate vessel and heat to 70-75°C.
4. Add Phase C to Phase AB with moderate homogenization agitation at 70-75°C until uniform.
5. Transfer Phase ABC to moderate propellor agitation and begin cooling.
6. Add Phase D to Phase ABC with moderate propellor agitation at 45-50°C.
7. Stop mixing at 40-45°C.

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Unleashing Nature
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