

HERO HAIR SERUM

with CocoaDesign™ L, L22® and Floraesters® 20



Hero's help us to be our best selves, so we've created Hero Hair Serum to help bring out the fabulousness of your hair! Together with **Floraesters® 20** for softness, conditioning and manageability, we've added **CocoaDesign™ L**, our new 'feel-good' sustainable cocoa butter ester for that silicone-like slip and shine. Add some **L22®** for healthy scalp care, and Voila! Hero Hair Serum to the rescue!

Phase	Trade Name	INCI	Supplier	%WT
A	Deionized water	Aqua	---	77.73
	Dissolvine® GL-47-S	Tetrasodium Glutamate Diacetate	Nouryon	0.10
	Actigum™ CS 11 QD	Sclerotium Gum	Cargill	0.40
	Glycerin, USP	Glycerin	Cargill	3.00
	Zemea® Propanediol	Propanediol	Dupont	2.00
B	Floraesters® 20	Jojoba Esters	Cargill	3.00
	CocoaDesign™ L	Cocoa Butter Ethyl Esters	Cargill	1.50
	Florasun® 90	Helianthus Annuus (Sunflower) Seed Oil	Cargill	5.00
	L22®	Jojoba Oil/Macadamia Seed Oil Esters (and) Squalene (and) Phytosteryl Macadamiate (and) Phytosterols (and) Tocopherol	Cargill	1.00
	Lanette® 16	Cetyl Alcohol	BASF	1.80
	D-Alpha-Tocopheryl Acetate	Tocopherol Acetate	Cargill	0.10
	StarDesign™ Power	Sodium Starch Octenylsuccinate (and) Hydroxypropyl Starch Phosphate	Cargill	3.00
C	Euxyl® PE9010	Phenoxyethanol (and) Ethylhexylglycerin	Schülke	1.00
	Citric Acid (30% Solution)	Citric Acid (and) Water	---	0.07
	Honeysuckle Lemon Fragrance (ORC2100862)	Fragrance	Orchidia	0.30

CHARACTERISTICS

- **pH:** 5.0 - 6.0
- **Viscosity:** 34k – 46k cP, Brookfield Digital Viscometer Model RVDV-E at RT, T-C, Spindle 93, 2.0rpm
- **Appearance:** serum/thin lotion
- **Stability:** passed 2 weeks at 50°C, 2 months stability at RT & 4 and 45°C, 3 cycles in F/T and H/C

PROCESS

1. Add ingredients of Phase A in main vessel with slow homogenization agitation at room temperature.
2. Begin heating to 70-75°C.
3. Slowly speed up the homogenization to activate Actigum CS11 once temperature reaches 70-75°C.
4. Mix ingredients of Phase B except StarDesign Power in a separate vessel at 70-75°C.
5. Add StarDesign Power once Phase B is melted and uniform.
6. Add Phase B to Phase A with rapid homogenization agitation at 70-75°C.
7. Once uniform, shift the batch to propeller mixing with medium - rapid agitation. Begin cooling to 50-55°C.
8. Slow propeller speed to slow - medium agitation at 60°C.
9. Add Phase C at 50-55°C with brief rapid propeller agitation.
10. Stop mixing at 35-40°C.



PATENTS AND REGULATIONS The information presented herein is intended to illustrate the possible technical applications of our products. However, since the use of this information and our products is beyond our control, any recommendations or suggestions are made without guarantee of warranty in each country and particularly in the absence of patent rights. In addition, we recommend that the user ensures that this product is in compliance with the local regulations in force, particularly in the country where the finished product is to be consumed. It is the responsibility of the user to comply with the patents and the regulations in force. Formula H030. Revision date: 11/2023

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