

ENERGY BOOSTING SERUM

with CocoaDesign™ S, StarDesign™ Pure and Actigum™ CS 11 QD



Introducing our Energy Boosting Serum, formulated to elevate your face care routine. **Actigum™ CS 11 QD** stabilizes the emulsion and provides viscosity, **StarDesign™ Pure** ensures a smooth, powdery afterfeel, while **CocoaDesign™ S** adds a cushiony sensation, delivering an energizing boost.

Experience the power of nature with this serum, leaving your skin feeling refreshed and rejuvenated.

| Phase | Trade Name | INCI | Supplier | Function | %WT |
|-------|--------------------------|--|-------------------|--|-------------|
| A | Demineralized Water | Aqua | Chem-Lab | --- | 69.09 |
| | Refined Glycerin | Glycerin | Cargill | Humectant | 3.00 |
| B | Actigum™ CS 11 QD | Sclerotium Gum | Cargill | Rheology Modifier | 0.70 |
| C | Axol C62 Pellets Mb | Glyceryl Stearate Citrate | Evonik | Emulsifier | 1.00 |
| | CocoaDesign™ S | Hydrogenated Cocoa Butter Ethyl Esters | Cargill | Cocooning cushiony feel emollient | 8.00 |
| D | Demineralized Water | Aqua | --- | --- | 5.00 |
| | Hysilk | Sodium Hyaluronate | Contipro | Himectant | 0.10 |
| | Caffeine, 99.7% | Caffeine | Thermo Scientific | Active | 0.30 |
| E | Demineralized water | Aqua | --- | --- | 10.00 |
| | StarDesign™ Pure | Zea Mays (Corn) Starch | Cargill | Sensory Enhancer | 1.50 |
| F | Concombre | Fragrance | Aromat'Easy | Fragrance | 0.20 |
| G | Geogard ECT | Benzyl Alcohol (and) Salicylic Acid (and) Glycerin (and) Sorbic Acid | Lonza | Preservative | 1.00 |
| H | Sodium Hydroxide (35%) | Sodium Hydroxide | VWR | pH Adjuster | 0.11 |

CHARACTERISTICS

- **pH:** 5 - 5.5
- **Viscosity:** 5500 mPa.s (Brookfield RV DV-II +, spindle 5, 20RPM, 1 min, RT after 24 hours)
- **Appearance:** white emulsion
- **Stability:** passed 3 months at RT and 45°C

PROCESS

1. Preheat Hydrogenated Cocoa Butter Ethyl Esters at 45°C-50°C in the oven or water bath until one transparent homogeneous phase is obtained (this step is necessary due to the two phases solid and liquid at room temperature)
2. Premix phase D (Demineralized water + Hysilk + Caféine) with IKA Eurostar Digital, Dissolver workhead until homogeneous phase obtained and leave it aside
3. Weigh phase A (Demineralized water + 5% extra demineralized water to compensate water evaporation due to hot process + Refined Glycerin) and mix with spatula until homogeneous phase obtained
4. Weigh Actigum CS 11 QD (phase B)
5. Add Phase B to phase A while mixing with rotor/stator 10000 rpm 20 min (IKA Ultra Turrax T25, workhead S25N-25G)
6. Weigh phase C (Axol C62 pellets + Hydrogenated Cocoa Butter Ethyl Esters)
7. Heat up phases (A+B) and C separately to 65-75°C in a water bath
8. Add phase C to phase (A+B) while mixing with rotor/stator 10000 rpm 5 min (IKA Ultra Turrax T25, workhead S25N-25G)
9. Cool down to <40°C while stirring (IKA Eurostar Digital, propeller workhead)
10. Weight the stardesign pure and disperse it in the water of phase E for 2min at 500 rpm (IKA Eurostar Digital, propeller workhead)
11. Add phase D to phase (A+B+C) while stirring (IKA Eurostar Digital, propeller workhead) until homogeneous phase obtained
12. Add phase E to phase (A+B+C+D) while stirring (IKA Eurostar Digital, propeller workhead) until homogeneous phase obtained
13. Add phase F and G while stirring (IKA Eurostar Digital, propeller workhead) until homogeneous phase obtained
14. Adjust the pH to 5-5.5 with phase F (IKA Eurostar Digital, propeller workhead)



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