

Formulations

Acne-control Balm with 2% Synactin AC Formulation #RC-01-09

| INCI name | Trade Name/Supplier | % w/w |
|--|--|--------|
| Phase A | | |
| Water (demineralized) | | Qs. |
| Disodium EDTA | | 0.10 |
| Glycerin 99% USP | | 3.00 |
| Xanthan Gum | Vanzan NF/Vanderbilt | 0.10 |
| Acrylates/C10-30 Alkyl Acrylate Copolymer | Carbopol Ultrez 21/Noveon | 0.20 |
| Phase B | | |
| Caprylic/Capric triglycerides | Myritol 318/Cognis | 4.00 |
| Cetearyl Isononaoate | Cetiol SN/Cognis | 4.00 |
| Vitamin E acetate | Tocopheryl acetate | 0.20 |
| Glyceryl Stearate, PEG-100 Stearate | Arlacel 165/Uniquema | 3.00 |
| Sorbitan Stearate | Arlacel 60, Span 60/Uniquema | 0.50 |
| Dimethicone | DC, 200/100CST/Dow Corning | 1.00 |
| Gransil GCM | Cyclomethicone, Polysilicone-11, Petrolatum/Grant Chemicals | 5.00 |
| Cetyl Alcohol | Crodacol C-70/Croda | 1.00 |
| Cetyl Esters | Jeechem MST/Jeen International | 1.00 |
| Phase C | | |
| Aminomethylpropanol | AMP-95 | 0.10 |
| Phase D | | |
| Phenoxyethanol, Caprylyl glycol | Optiphen/ISP | 1.00 |
| Polyacrylamide, C13-14 Isoparaffin, Laureth-4 | Sepigel 305/Seppic | 1.50 |
| Caprylic/Capric Triglycerides and Hexylresorcinol and Ethyl linoleate | Synactin AC/Sytheon | 2.00 |
| Phase E | | |
| Citric acid | to pH ~ 5.5 | 0.10 |
| Total | | 100.00 |

Procedure: Begin heating water to 75 °C. Premix glycerin, EDTA and xanthan gum and add slowly Carbopol. Combine phase B ingredients then heat to 75 °C. Add phase B to A with good mixing. Add phase C. Homogenize mixture at moderate speed, while cooling to ~40 °C. Add preservative, Sepigel 305 and then Synactin AC; stir gently until mixture is homogeneous. pH adjusted with citric acid to ~5.5.

pH = 5.3
Viscosity =102,000cps

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