

BioAmber

BIO-BASED SUCCINIC ACID FOR NATURAL ESTER FORMULATIONS

CREATING VALUE WITH NATURAL PERSONAL CARE INGREDIENTS THAT PERFORM



HAIR CONDITIONER FORMULATION WITH DIOLEYL SUCCINATE (Experimental ester)

| | TRADE NAME | INCI NAME | % w/w |
|---------------|--------------------------------|---|-------|
| PART A | Deionized water | Deionized water | 82.3 |
| | Cetearyl alcohol | Cetearyl alcohol | 6.0 |
| | Polysorbate 60 | Polysorbate 60 | 1.0 |
| | Lexamine S-13 | Stearamidopropyl dimethylamine | 1.5 |
| | Adogen 432 CG | Dicetyldimonium chloride | 3.0 |
| | Panthenol | Panthenol | 0.1 |
| PART B | Citric acid | Citric acid | 0.1 |
| PART C | Botanistat PF-64 | Phenoxyethanol, Caprylyl glycol, Ethylhexylglycerine, hexylene glycol | 1.0 |
| PART D | Dioleyl succinate ⁺ | Dioleyl succinate | 5.0 |

⁺Positive control replaced Part D with 5.0% w/w of Cyclopentasiloxane (Cosmetic Fluid 995)

HAIR SHINE SERUM FORMULATION WITH OCTYL DECYL SUCCINATE (Experimental ester)

| | TRADE NAME | INCI NAME | % w/w |
|---------------|-------------------------------------|---|-------|
| PART A | Cosmetic Fluid 9109 | Cyclotetrasiloxane, cyclopentasiloxane, dimethicone | 94.9 |
| | Octyl decyl succinate ⁺⁺ | Octyl decyl succinate | 5.0 |
| | Lovespell type Fragrance | Fragrance | 0.1 |

⁺⁺Positive control replaced octyl decyl succinate with 5.0% w/w of Cyclopentasiloxane (Cosmetic Fluid 995)



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CREATING VALUE WITH NATURAL PERSONAL CARE INGREDIENTS THAT PERFORM



MOISTURIZING SKIN CREAM FORMULATION WITH DISTEARYL SUCCINATE (Experimental ester)

| | TRADE NAME | INCI NAME | % w/w |
|---------------|------------------------------------|---|-------|
| PART A | Deionized water | Deionized water | 74.4 |
| | Carbopol Ultrez 10 | Carbomer | 0.5 |
| PART B | Glycerin 99.50% | Glycerine | 4.0 |
| | Keltrol CG | Xanthan Gum | 0.2 |
| PART C | Safflower Oil High Oleic | Carthamus tinctorius (Safflower) seed oil | 5.0 |
| | Isopropyl Myristate | Isopropyl myristate | 2.0 |
| | Cetyl alcohol | Cetyl alcohol | 2.0 |
| | Stearic acid | Stearic acid | 3.0 |
| | Glyceryl stearate SE | Glyceryl stearate SE | 2.0 |
| | DM 100 | Dimethicone | 1.0 |
| | Shea Butter | Butyrospermum parkii (Shea) nut butter | 1.0 |
| PART D | Triethanolamine 99% | Triethanolamine | 0.8 |
| PART E | Vitamin E Acetate | Tocopheryl Acetate | 0.1 |
| PART F | Botanistat PF-64 | Phenoxyethanol, Caprylyl glycol, Ethylhexylglycerine, hexylene glycol | 1.0 |
| PART G | Distearyl succinate ⁺⁺⁺ | Distearyl succinate | 3.0 |

⁺⁺⁺Positive control replaced Part G with 3.0% w/w dimethicone and dimethicone cross polymer (Botanisil GB-40)



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