



Formulation

No. 4013

Antibacterial Hand Soap (DEA-Free, Triclosan-Free)

DESCRIPTION

This formulation features **Cola®Teric COAB**, **Cola®Liquid DC** and **Cola®Lipid C** in a high-foaming, soothing hand soap that gently cleans with 100% natural moisturizers. DEA-free, Triclosan-free. Utilizes Cola®Lipid C to provide emolliency and boost antimicrobial performance. Ideal for repeated use in health care and other frequent handwashing settings.

FORMULATION

| Order | INCI | Ingredients | % |
|-------|---|--------------------------------|--------------|
| 1 | Water | | qs to 100.00 |
| 2 | Cocamidopropyl Betaine | Cola®Teric COAB | 12.00 |
| 3 | Cocamide DIPA | Cola®Liquid DC | 0.30 |
| 4 | Cocamidopropyl PG-Dimonium Chloride Phosphate | Cola®Lipid C | 0.25 |
| 5 | Glycerin | | 2.00 |
| 6 | Propanediol | Zemea® ¹ | 0.50 |
| 7 | PEG-150 Distearate | Lipopeg® 6000DS ² | 2.00 |
| 8 | Fragrance | White Lily ³ | 0.25 |
| 9 | Preservative | | qs |
| 10 | Benzalkonium Chloride | Stepanquat™ 50 NF ⁴ | 0.20 |

PROCEDURE

1. Combine ingredients 1-6 in order with moderate mixing.
2. Heat to 60-70°C.
3. Add 7. Mix at temperature until clear and homogenous.
4. Cool below 50°C.
5. Add remaining ingredients. Adjust pH to 6.0 with sodium hydroxide.

TYPICAL PROPERTIES

Appearance Clear
pH 6.0
Viscosity 2,000 cps

SUPPLIERS

¹DuPont Tate & Lyle, ²Lambent, ³Belle-Aire Fragrances, ⁴Stepan

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