



# Formulation

No. 4013

## Antibacterial Hand Wash (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	<b>Cola®Teric COAB</b>	12.00
3	Cocamide DIPA	<b>Cola®Liquid DC</b>	0.30
4	Cocamidopropyl PG-Dimonium Chloride Phosphate	<b>Cola®Lipid C</b>	0.25
5	Glycerin		2.00
6	Propanediol	Zemea® <sup>1</sup>	0.50
7	PEG-150 Distearate	Lipopeg® 6000DS <sup>2</sup>	2.00
8	Fragrance	White Lily <sup>3</sup>	0.25
9	Preservative		qs
10	Benzalkonium Chloride	Stepanquat™ 50 NF <sup>4</sup>	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

<sup>1</sup>DuPont Tate & Lyle, <sup>2</sup>Lambent, <sup>3</sup>Belle-Aire Fragrances, <sup>4</sup>Stepan

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