



# Cola® Lipid DCCA

Biomimetic Phospholipid Complex

**INCI NAME** Sodium Coco PG-Dimonium Chloride Phosphate  
**CAS NUMBER** 173010-79-2 or 223707-61-7 (EU and Taiwan Only)  
**LISTINGS** USA (TSCA); Canada (NDSL); EU (REACH); Korea (ECL); Taiwan (NECI)

**Cola® Lipid DCCA** is a plant-derived multifunctional phospholipid, combining gentle cleaning, mildness and excellent substantivity with broad spectrum antimicrobial activity. It can be utilized to minimize preservative requirements or to formulate self-preserved systems. Cola® Lipid DCCA is compatible with all surfactant types and is ideal for use in personal care cleansers where mildness and antimicrobial properties are of importance.



## BENEFITS

- Multifunctional surfactant behavior
- Broad spectrum antimicrobial activity
- Increases formulation bio-resistance
- Anti-irritant formulation additive
- Non-harmful to eyes and skin
- More stable than natural phospholipids
- Broad pH tolerance / effectiveness
- Excellent substantivity on hair and skin
- Synergistic with preservative systems
- Compatible with all surfactant types

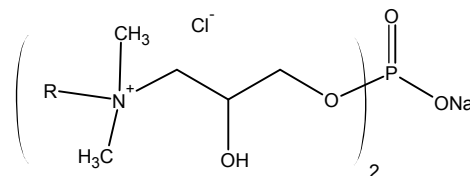
## APPLICATIONS

- Baby Wipes
- Hand Sanitizers
- Body and Foot Scrubs
- Antiseptic Wound Cleansers
- Personal Care Cleansing
- Boosting the killing properties of benzalkonium chloride and other sanitizing quats



## TYPICAL PROPERTIES / STRUCTURE

Appearance	Clear to Hazy Liquid
pH, 10% aqueous	6.0
Solids, %	36.5
NaCl, %	5.8
Color, Gardner '98	3



## PERFORMANCE

**Foaming** Ross Miles (1% active)

Immediate	175
1 Min.	160
5 Min.	150

**Wetting** 18.47

## MICROBIAL TESTING

Organism	Result
Staphylococcus aureus (ATCC 6537)	146 ppm
Pseudomonas aeruginosa (ATCC 9027)	2562 ppm
Escherichia coli (ATCC 8739)	1098 ppm
Burkholderia cepacia (ATCC 25416)	3660 ppm
Salmonella enterica (ATCC 10428)	1464 ppm
Candida albicans (ATCC 10231)	<36 ppm
Aspergillus brasiliensis (ATCC 16404)	<36 ppm

## FORMULATION

### DEA-Free Antibacterial Hand Soap

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

INGREDIENT	%
1 Water	qs to 100.00
2 <b>Cola®Teric COAB</b>	12.00
3 <b>Cola®Liquid DC</b>	0.30
4 <b>Cola®Lipid DCCA</b>	0.25
5 Glycerin	2.00
6 Zemea®(DuPont Tate & Lyle)	0.50
7 PEG-150 Distearate (Lambent)	2.00
8 White Lily Fragrance (Belle-Aire)	0.25
9 Preservative	qs
10 Benzalkonium Chloride	0.20

#### Procedure:

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

#### Typical Properties:

Appearance: Clear Liquid pH: 6.0 Viscosity: 2,000 cps

## FORMULATION

### Lightweight Face Primer

This formulation features **Cola®Lipid DCCA** in a lightweight and creamy soft makeup base that smoothly conditions skin with its gentle texture for a makeup-ready complexion.

INGREDIENT	%
1 Water	qs to 100.00
2 Cetyl Alcohol	4.00
3 Steareth-2	2.00
4 Steareth-20	1.20
5 Ethylhexyl Palmitate	3.00
6 <b>Cola®Lipid DCCA</b>	1.00
7 Glycerin	5.00
8 Preservative, fragrance, dye	qs

#### Procedure:

Combine ingredients 1, 6, and 7 in the main vessel. Mix and heat to 70°C. In another vessel, combine ingredients 2-5. Mix and heat to 70°C. Once both vessels are at temperature, slowly add the oil phase to the water phase. Cool below 50°C and add remaining ingredients. Homogenize and fill.

#### Typical Properties:

Appearance: Opaque cream pH: 5.5 Viscosity: 40,000 cps

## STORAGE AND HANDLING

Cola®Lipid DCCA should be stored in sealed containers at temperatures not exceeding 120°F (49°C). Shipped in 55 gallon open-head poly drums (net weight 450 lb/204 kg). Typical shelf life is 12 months from date of manufacture. Safety Data Sheets and additional information may be found [www.colonialchem.com](http://www.colonialchem.com).



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