



Clear Micellar Conditioner

DESCRIPTION

This formulation features **Poly Suga® Quat L1010P** and **Cola® Lipid C** in a unique concept for a silicone-free, clear conditioner that is designed with micellar technology to provide mild, weightless conditioning without buildup.

FORMULATION

Order	INCI Name	Trade Name	%
1	Water	Water	qs to 100.00
2	Hydroxypropyl Methylcellulose	Benecel™ K200M ¹	0.75
3	Polyquaternium-7	Merquat™ 550 Polymer ²	2.00
4	Polyquaternium-78	Poly Suga® Quat L1010P	4.00
5	Cocamidopropyl PG-Dimonium Chloride Phosphate	Cola® Lipid C	4.00
6	Fragrance	WS Apple Fragrance ³	0.20
7	Benzyl Alcohol and Ethylhexylglycerin and Tocopherol	Euxyl® K 900 ⁴	1.00
8	Citric Acid	Citric Acid, 50%	qs to pH

PROCEDURE

1. Heat 1/3 of the water to 80 – 85°C and chill the remaining balance of water to ~5°C.
2. Disperse ingredient 2 in the hot water, then add the balance of cold water while mixing. Begin cooling to 40 – 45°C.
3. Mix until smooth and uniform, then add ingredient 3.
4. Once at 40 – 45°C, add ingredients 4 – 7 in order. Mix until clear and uniform.
5. Adjust to pH 5.0 – 5.5 with citric acid.

TYPICAL PROPERTIES

Appearance	Clear, Viscous Liquid
pH	5.0 – 5.5
Viscosity	4,000 – 6,000 cP
% Solids	4.4 – 4.6

SUPPLIERS

¹Ashland, ²Lubrizol, ³Orchidia Fragrances, ⁴Schülke & Mayr

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