

Conditioning Clear Shampoo

Ref: PS1-159

This conditioning shampoo formulation can be developed clear by incorporating **BioPlex Cetylsil Olive CE** and **Biosil Basics SPQ CE** in place of traditional conditioning agents. These ingredients provide manageability, good combability and shine to the hair.

INCI	Trade Name	Supplier	% W/W
Phase A			
D.I. Water			
Disodium EDTA	Protachem NA-2-P	Protameen	0.100
Glycerin	Glycerin 99.5%	Protameen	3.000
Phase B			
Ammonium Lauryl Sulfate	Standapol A	Cognis/USA	20.000
Ammonium Laureth Sulfate	Steol CA-330	Stepan	15.000
Cocamidopropyl Betaine	Amphosol HCA	Stepan	10.000
Silicone Quaternium-20	SilPlex J2-S	Siltech	1.000
Cetrimonium Dimethicone PEG-8 Oliviate/Succinate	BioPlex Cetylsil Olive CE	Biosil	1.000
Silicone Quaternium-2 Panthenol Succinate	Biosil Basics SPQ CE	Biosil	1.000
Phase C			
Propylene Glycol	Propylene Glycol		1.000
Methyl Paraben	Methyl Paraben NF	Protameen	0.200
Phase D			
Citric Acid	Citric Acid		0.590
Sodium Chloride	Sodium Chloride		0.750
Phase E			
Fragrance	Ocean Fresh S8-41303	Premier	0.500
FD@C Blue #1	FD@C Blue @ 1% in Water	LCW	0.006

Procedure: Add water to the main beaker. Add ingredients of Phase A with mixing one by one. Mix until Disodium EDTA is dissolved. Slowly add ingredient of Phase B and mix until it is clear. Combine ingredients of Phase C together. Mix and heat to 70°C until it is clear. Cool it down to 35-40°C. Add to the main batch with mixing. Add ingredients of Phase D to adjust pH and viscosity. Add ingredients of Phase E one by one with mixing.

Parameters: pH 5.0, Viscosity 2780 CPS S#4 @ 20 RPM (Brookfield RVT)

Stability: Acceptable 8 weeks stability at 4°C, RT 45°C, and 3 F/T cycles

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