

Keratin Hair Shampoo with UV-Protection

(Sample Recipe for Cetrimonium Chloride)

Keratin Hair Shampoo with UV-Protection

Phase A	Weight %	For 100 g / 3.6 oz
Distilled Water (diluent)	48.3 %	48.3g / 1.7oz
Glycerin (humectant)	2.0 %	0.2g / 0.007oz
ETDA (stabilizer, chelating agent)	0.2 %	2.0g / 0.07oz
Phase B		
Alpha Olefin Sulfonate (surfactant)	18 %	18.0g / 0.6oz
Coco Betaine (surfactant)	10 %	10.0g / 0.4oz
Sulfosuccinate (surfactant)	10 %	10.0g / 0.4oz
Cocamidopropylamine Oxide (foam booster)	3.0 %	3.0g / 0.1oz
Cetrimonium Chloride (detangler)	2.0 %	2.0g / 0.07oz
Glucose VEG (thickener)	2.5 %	2.5g / 0.09oz
Phase C		
OM-Cinnamate (UV-protector)	1.0 %	1.0g / 0.04oz
Keratin Protein (protein)	2.0 %	2.0g / 0.07oz
Fragrance (perfume)	0.2 %	0.2g / 5 drops
CitrusCombo (anti-microbial agent)	1.0 %	1.0g / 0.04oz
Citric Acid to pH 4.5-5.5	q.s	1.0g / 0.04oz

Method

Add phase A into a disinfected glass beaker and stir well.

Add phase B ingredients one by one and stir after each ingredient.

Add phase C ingredients and stir again after each addition.

Check the consistency and adjust with Glucose VEG if necessary.

Test pH, and if necessary adjust to 4.5-5.5.

Properties

Dense foaming & nicely lathering shampoo. Very gentle due to combination of very mild surfactants.