

**1817 - Conditioning Shampoo with Sugarcane (100.00g)**

Ingredient	Function	Percent	Wgt (g)	Wgt (oz)	Vol (tsp.)
<b>Phase A</b>					
Distilled Water (aqua)	Diluent	44.50	44.50	1.57	8.90
Guar Gum, Cationic (guar hydroxypropyltrimonium chloride)	Thickener	1.00	1.00	0.04	0.20
Glycerin (glycerin)	Humectant	5.00	5.00	0.18	1.00
<b>Phase B</b>					
Sulfosuccinate (disodium laureth sulfosuccinate)	Surfactant	20.00	20.00	0.71	4.00
Coco Betaine (cocamidopropyl betaine)	Surfactant	18.00	18.00	0.63	3.60
PEG-150 Distearate (PEG-150 distearate)	Thickener	1.50	1.50	0.05	0.30
PEG-7 Glyceryl Cocoate (PEG-7 glyceryl monococoate)	Emulsifier	1.50	1.50	0.05	0.30
Brassica Oil Copolymer (brassica campestris/ aleurites fordii oil copolymer)	Emollient	0.50	0.50	0.02	0.10
<b>Phase C</b>					
Jobaba Protein HP, Hydrolyzed (hydrolyzed jojoba protein)	Protein	1.50	1.50	0.05	0.30
Provitamin B5 (d-panthenol, water)	Vitamin	2.00	2.00	0.07	0.40
Phenoxyethanol SA (phenoxyethanol, sorbic acid, caprylyl glycol)	Preservative	1.00	1.00	0.04	0.20
Fragrance	Fragrance	0.50	0.50	0.02	0.10
Sugarcane Extract (glycerin, water, saccharum officinarum (sugarcane) extract)	Botanical	3.00	3.00	0.11	0.60

**Method**

1. Add phase A into a disinfected glass beaker and sprinkle the guar gum into the water, mix well to avoid the formation of lumps. 2. Add phase B into a separate beaker and heat to 150F/65C to melt the PEG-150 Distearate. 3. Combine phase A and B and stir. 4. Add phase C to phase A/B when the shampoo has cooled below 100F/40C, then stir again.

**Properties**

Jojoba Protein forms a hydroscopic film on the hair and retains moisture, together with Sugarcane. Provitamin B5 nourishes, adds shine and reduces split ends. Cationic Guar gum adds conditioning properties to the shampoo. Sulfosuccinate and coco betaine are very mild surfactants.