

### Conditioning Shampoo with Jojoba Protein & Provitamin B5 - 1116

Ingredient	Function	Percent	Wgt (g)	Wgt (oz)	Vol (tsp.)
<b>Phase A</b>					
Distilled Water (aqua)		46.00	110.40	3.89	22.08
Guar Gum, Cationic (guar hydroxypropyltrimonium chloride)		1.00	2.40	0.08	0.48
Glycerin (glycerin)		5.00	12.00	0.42	2.40
<b>Phase B</b>					
Sulfosuccinate (disodium laureth sulfosuccinate)		20.00	48.00	1.69	9.60
Coco Betaine (cocamidopropyl betaine)		18.00	43.20	1.52	8.64
PEG-150 Distearate (PEG-150 distearate)		1.50	3.60	0.13	0.72
PEG-7 Glyceryl Cocoate (PEG-7 glyceryl monocoate)		1.50	3.60	0.13	0.72
Cyclo-Dimethicone (cyclomethicone, dimethicone)		0.50	1.20	0.04	0.24
<b>Phase C</b>					
Jojoba Protein HP, Hydrolyzed (hydrolyzed jojoba protein)		3.00	7.20	0.25	1.44
Provitamin B5 (d-panthenol, water)		2.00	4.80	0.17	0.96
Paraben-DU (propylparaben, methylparaben, diazolidinyl urea, propylene glycol)		1.00	2.40	0.08	0.48
Fragrance Citrus Punch		0.50	1.20	0.04	0.24

#### Method

Add phase A into a disinfected glass beaker and sprinkle the guar gum into the water, mix well to avoid the formation of lumps. Add phase B into a separate beaker and heat to 150F/65C to melt the peg-150 distearate. Combine phase A and B and stir. 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, adds shine and luster as well. Provitamin B5 moisturizes, adds shine and reduces split ends. Cationic Guar gum adds conditioning properties to the shampoo. Sulfosuccinate and coco betaine are very mild surfactants.