

## Shampoo

Natural salon quality shampoo

### Ingredients

Phase	%w/w input	Ingredient
A	31.45	Water
A	0.10	Sodium phytate (Dermofeel PA-3)
A	1.00	Polyquaternium-7 (Merquat 550PR)
A	2.00	Baobab protein
A	1.00	Sodium PCA (50%)
A	0.50	Witch hazel extract - glycerin
B	29.60	Sodium cocoyl apple amino acids (30% active)
B	20.00	Cocamidopropyl Betaine (30% surfactant) (Genagen CAB 818)
B	3.00	Coco-Glucoside (52%) (Plantacare 818UP)
C	1.50	Polysorbate 20 (Liposorb L-20)
C	0.70	Argan oil
C	0.50	Lavender (Lavandula angustifolia) flower essential oil
C	0.05	Tocopherols - mixed
D	7.00	Propanediol
D	0.60	Xanthan gum
E	1.00	Phenoxyethanol, Ethylhexylglycerin (Euxyl PE9010)
	q.s.	pH Adjuster



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## Method

1. Combine phase A. Stir under low shear until homogenous.
2. Combine phase B. Add phase B under low shear to phase A. Take care not to introduce too much air/foam while stirring.
3. Combine phase C. Add phase C to phase A/B slowly and stir through under low shear until homogenous. Take care not to introduce too much air/foam while stirring.
4. Combine phase D. Add to phase A/B/C and stir through under low shear until homogenous. Take care not to introduce too much air/foam while stirring.
5. Add phase E and stir through until homogenous. Take care not to introduce too much air/foam while mixing.
6. Check/adjust pH to 6.2 - 6.7. Allow foam to settle completely before pouring off.

**Disclaimer:** This formula and method has been developed based on the theoretical selection of listed ingredients; all costs associated with producing a sample of this product is the user's responsibility including any reworks or fails. IPCS recommends a 100g lab scale sample be made and pilot production prior to full scale production.

Please refer to supplier Safety Data Sheets (SDS/MSDS) to ensure safe handling of all raw materials. IPCS holds no responsibility for inappropriate use of materials selected, the formulation or method, in part or as a whole.

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