

Pearlizing Mild Hair Shampoo		
Phase A	Weight %	For 240 g / 8.4 oz
Warm Distilled Water (diluent)	46.5 %	111.6 g / 4 oz
Guar Gum (thickener/conditioner)	0.5 %	1.2 g / 0.1 oz / 1/2 tsp
Glycerin (humectant)	2 %	4.8 g / 0.17 oz / 1 tsp
Phase B		
Alkyl Sulfonate (cleansing agent)	30 %	72 g / 2.6 oz / 1/4 cup 2 tsp
Coco Betaine (cleansing agent)	10 %	24 g / 0.9 oz / 1 3/4 Tbsp
Polyglucose (cleansing agent)	4 %	9.6 g / 0.3 oz / 2 tsp
Glycol Stearate IP (pearlizer)	4 %	9.6 g / 0.3 oz / 1 Tbsp 1/2 tsp
Phase C		
Provitamin B5 (active ingredient)	1 %	2.4 g / 0.1 oz 55 drops
Phenoxyethanol/SA (preservative)	1.5 %	3.6 g / 0.1 oz / 80 drops
Fragrance	0.5 %	1.2 g / 0.05 oz 25 drops
<p>Method</p> <p>Add phase A into a disinfected glass beaker and stir well to dissolve the gum. Adjust the pH between pH5–6 with citric acid.</p> <p>Add phase B into a separate beaker and heat the ingredients to 150F/65C to melt the glycol stearate IP. Add phase A to phase B and stir gently to mix all ingredients, avoiding the formation of foam. Add phase C to phase A/B when cooled to 100F/40C, and stir again until it is a homogenous solution.</p> <p>Check final pH, best between 5–6.</p> <p>Properties</p> <p>Mild basic creamy hair shampoo for all hair types. Provitamin B5 provides moisturizing effect and shine, Glycol Stearate IP adds the pearl shine to the shampoo and the cationic guar gum will have a conditioning effect on the hair.</p>		