



# Formulation

Name	<b>MILK AND HONEY SHAMPOO</b>	
No.	355	
Description	This mild shampoo with milk protein and honey is for every day use.	
Formulation	<u>INGREDIENTS:</u>	<u>% by Weight</u>
	=== Phase 1 ===	
	Deionized Water	q.s. to 100
	STEPANOL® WA-EXTRA (or STEPANOL® WA-EXTRA HP)	28.30
	BIO-TERGE® AS-40 (or BIO-TERGE® AS-40 HA)	21.25
	AMPHOSOL® CA	3.30
	NINOL® 96-SL	2.00
	=== Phase 2 ===	
	Hydrolastin 2500 (Croda) Milk Protein	0.10
	Honey (Carrubba Inc.)	0.20
	Citric Acid	q.s.
	Fragrance, Dye, and Preservative	q.s.
	Sodium Chloride	q.s.
	<b>Total</b>	<b>100.00</b>
Procedure	<ol style="list-style-type: none"> <li>1. Combine ingredients in Phase 1.</li> <li>2. Heat to 65°C and mix until clear.</li> <li>3. Start cooling to room temperature.</li> <li>4. Adjust pH to 6.5-7.0 with Citric Acid.</li> <li>5. Add Honey and Hydrolastin.</li> <li>6. Add Fragrance, Dye, and Preservative, if desired.</li> <li>7. Adjust to desired viscosity with Sodium Chloride.</li> </ol> <p>*Note: When formulating with STEPANOL® WA-EXTRA HP and BIO-TERGE® AS-40 HA, a greater amount of Citric Acid may be needed to adjust the pH within the recommended range as noted, than when formulating with STEPANOL® WA-EXTRA and BIO-TERGE® AS-40.</p>	
Physical Properties	Appearance, as is	Clear, slightly yellow liquid
	pH, as is	6.5-7.0
Storage/ Stability	2 weeks at 50°C	Stable
	3 months at 25°C	Stable
	3 months at 42°C	Stable
	Freeze/Thaw, 3 cycles	Pass
Instructions for Use	Apply to wet hair, lather and rinse.	
External Comment	Marketing Notes: AMPHOSOL® HCA-HP may be a potential substitute for AMPHOSOL® CA. It should be noted that stability testing using this AMPHOSOL® HCA-HP has not been completed on this formulation, and in addition to the pH adjustment taking a greater amount of Citric Acid, the substitution may also yield slightly different physical properties.	
Registered	BIO-TERGE®	

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