

From our Formulary

Gentle Cleanse Daily Shampoo



Mild, naturally derived and sulfate-free, daily-use shampoo. This gentle-cleansing shampoo is great for dry to normal hair types or people with sensitive scalps; it will leave your scalp feeling lightly moisturized not tight or irritated. This formula uses a blend of surfactants, naturally derived from coconut, pure silk fibers and amino acids, which produce a high foaming, hydrating cleanser with excellent rinse-ability.

Final product will be a neutral pH, amber-colored clear liquid.

Formula

	Percent	Grams	Ounces	Ingredient
Phase A	25.00	250.0	8.82	SurfPro™ CAPB
	25.00	250.0	8.82	SurfPro™ CG
	10.00	100.0	3.53	Foaming Silk*
	3.00	30.0	1.06	Sodium Lactate 60%**
	1.50	15.0	0.53	Hydrolyzed Wheat Protein***
Phase B	31.50	315.0	11.11	Water
	2.50	25.0	0.88	SurfThix™ DOE
Phase C	1.00	10.0	0.35	Fragrance
	0.50	5.0	0.18	Euxyl PE 9010
Phase D	QS****	QS	QS	Citric Acid (50% Solution)*****

1. Combine Phase A ingredients in a large mixing container by gently mixing after addition of each ingredient. Heat mixture to 70°C (158°F) in double boiler.
2. In a separate mixing container, heat the water in Phase B until it reaches 70-80°C (158-176°F), and add the SurfThix DOE stirring until dissolved in solution. Add Phase B to Phase A ingredients and gently stir until thoroughly combined.
3. Remove mixing container from heat and allow to cool to 35°C (95°F) or cooler before addition of Phase C ingredients. If desired, place the mixing container in an ice bath to speed the cooling process.
4. Add Phase C ingredients and mix by gently stirring. As the mixture cools and over the next 24 hours, the shampoo will continue to thicken.
5. **Test the pH.** The unadjusted pH of the shampoo is approximately 8.0-8.2, adjust with 20% Citric Acid Solution to a final pH of 7.0-7.5.

Makes approximately 1000 grams or 35.27 ounces of shampoo. Ingredients can be cut in half to make only 500 grams or 17.64 ounces of shampoo at a time.

Notes:

*The Foaming Silk surfactant can be substituted with Foaming Apple or Foaming Oat with some variance in foaming ability.

**Sodium Lactate 60% Solution is used in this formulation because it is pre-dissolved for ease of use. Make a 60% Sodium Lactate Solution by combining 60 grams (2.0 ounces) of Sodium Lactate with 40 grams (1.33 ounces) of distilled water and place in 2 ounces bottle. Label Sodium Lactate 60% Solution. Store at room temperature.

***The Hydrolyzed Wheat Protein can be substituted with a different Hydrolyzed Protein (Oats, Quinoa, Rice Protein, Baobab, Silk Amino Acids) with some variance in shine and hydrating ability.

****QS From the Latin Quantum satis aka Quantity Sufficient means to use just as much as needed to achieve the desired result

*****Make a 50% Citric Acid Solution by combining 50 grams (1.7 ounces) of citric acid with 50 grams (1.7 ounces) of distilled water and place in 2 ounces bottle. Label Citric Acid 50% Solution. Store at room temperature.

INCI: Water, Cocamidopropyl Betaine, Decyl Glucoside, Polyglyceryl-10 Caprylate/Caprates, Coco Glucoside, Glyceryl Oleate, Sodium Cocoyl Hydrolyzed Silk Protein, Hydrolyzed Wheat Protein, Sodium Lactate, PEG-120 Methyl Glucose Dioleate, Methyl Gluceth-10, Fragrance, Phenoxyethanol and Ethylhexylglycerin.

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Ingredients in **bold** are carried by Lotioncrafter

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Lotioncrafter LLC 48 Hope Ln, Eastsound, WA 98245 Tel: 360-376-8008
email: sales@lotioncrafter.com Visit us at: www.lotioncrafter.com