

From our Formulary

Goat Milk Lotion



Our new Goat Milk Lotion was created using Lotionpro 165 as the primary emulsifier and features Euxyl PE 9010 as a non-paraben, non-formaldehyde preservative. Euxyl PE 9010 is combined with Potassium Sorbate and Sodium Benzoate to make a very effective preservative system for a difficult to preserve formulation. This formula has passed a USP 51 Preservative Efficacy Test.

When using a stick blender, care should be taken to avoid entraining a lot of air into the mixture (keep the head of the mixer deep in the formulation). These formulations are based on the weight of these ingredients. Please use a scale that can measure these amounts.

This formula makes 1000g or 34 oz. of lotion.

Formula

	Percent	Grams	Ounces	Ingredient
Phase A	64.1	641.0	21.366	Distilled Water
	1.0	10.0	0.333	Goat Milk Powder*
	3.0	30.0	1.000	Glycerin
	0.2	2.0	0.066	Disodium EDTA
Phase B	4.0	40.0	1.333	Lotionpro 165
	2.0	20.0	0.666	Cetyl Alcohol
	5.0	50.0	1.666	Coconut Oil 76
	5.0	50.0	1.666	Shea Butter Refined
	5.0	50.0	1.666	Lotioncrafter CCT
	3.0	30.0	1.000	Lotioncrafter Ester AB
	0.5	5.0	0.166	Vitamin E Mixed Tocopherols T50
Phase C	1.0	10.0	0.333	Euxyl PE 9010
	5.0	50.0	1.666	Lotioncrafter LC995
	0.5	5.0	0.166	Sodium Benzoate
	0.2	2.0	0.066	Potassium Sorbate
Phase D	0.5	5.0	0.166	Fragrance Oil
Phase E	QS**	QS	QS	Citric Acid (50% Solution)***

1. Combine Phase A ingredients, blending with wire whisk or mini mixer until ingredients are homogenous. Heat to 80°C (176°F).

2. Combine Phase B ingredients and heat to 80°C (176°F), mixing until ingredients are homogenous.

3. Immediately add Phase A to Phase B ingredients, mixing with emersion (stick) blender until temperature is 60°C (156°F).

4. Add Phase C ingredients one at a time with mixing and continue to mix until temperature is below 30°C (86°F).
5. Add Phase D and mix well.
6. Check final pH of formulation and adjust to pH 4.5 with 50% Citric Acid solution.

Notes:

*Goat Milk Powder at 1% will be equivalent to 9% in the final formulation.

**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.

Ingredients in **bold** are carried by Lotioncrafter

The information given and the recommendations made herein are based on our research and are believed to be accurate but no guarantee of their accuracy is made and we assume no liability regarding this formula or information contained herein. In every case we urge and recommend that our customers make their own tests to determine to their own satisfaction whether the product is suitable for their particular purposes under their own operating conditions. Nothing contained herein shall be construed to imply the nonexistence of any relevant patents or to constitute a permission, inducement or recommendation to practice any invention covered by any patent, without the authority from the owner of this patent.

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