

From our Formulary **Babassu & Calendula Hydrating Hand & Lotion**



Babassu Oil is a silky, dry feeling oil that offers moisturizing and occlusion to the skin as well as thickening to the lotion. Evening primrose oil is high in gamma-linolenic acid (GLA), which helps to speed up skin's barrier repair mechanisms. These two oils combine to reduce trans-epidermal water loss, create an occlusive layer, and increase skin's flexibility.

Glycerin and **Sodium Lactate** are humectants that draw water from the atmosphere to the skin, providing hydration. **Calendula Extract** moisturizes and reduces inflammation, while **Chamomile Extract** reduces irritation. Both behave as anti-oxidants in this recipe. **Hydrolyzed Quinoa** offers conditioning and film forming properties. **ECOmulse** is an emulsifier approved for organic products and is not derived from GMO ingredients. This formula produces a less greasy feeling, silky feeling lotion with a slight occlusive layer on the skin.

Formula

	Percent	Grams	Ounces	Ingredient
Phase A	57.0%	171.00	5.70	Distilled, de-mineralized, or de-ionized water
	3.00%	9.00	0.30	Glycerin
	2.00%	6.00	0.20	Sodium Lactate
Phase B	8.00%	24.00	0.80	ECOmulse
	12.00%	36.00	1.20	Babassu Oil
	12.00%	36.00	1.20	Evening Primrose Oil
Phase C	3.00%	9.00	0.30	Calendula Extract
	2.00%	6.00	0.20	Hydrolyzed Quinoa
	0.50%	1.50	0.05	Chamomile Extract
	0.50%	1.50	0.05	Liquid Germall Plus

1. Weigh Phase A in a pot. Bring to a temperature of 80°C(176°F), hold for 20 minutes to kill any bacteria and mold spores, and remove from heat.

2. While Phase A is coming to temp, weigh and heat Phase B in another pot. Heat directly on the stove, or place the pot in a water bath or double boiler to heat on the stove, if you prefer. Bring to 80°C (176°F) and remove from heat. Gently stir the oils and waxes to melt them all together. Cover and hold at this temperature until the water phase is ready.

3. If your oil phase pot is deep enough to avoid splash out when blending, pour the water phase into it. If not, pour the oil and water phases together into a Rubbermaid-type straight-sided pitcher or deep mixing bowl. Insert an immersion (stick) blender into the mixing vessel, keeping it near the bottom to avoid entraining air and blend. Move the stick blender around in the vessel to make certain that the lotion is well mixed

4. Stop blending briefly. Place your mixing vessel into a cold water bath in your sink. Make sure your sink is not too full; you only need enough water to come up to the level of the lotion in the pot (a couple of inches for this recipe). It creates a cooling jacket around your mixing vessel. Immediately resume blending your lotion with your stick blender, moving it around the bottom of the pot to fully incorporate the mix. When the mixture is incorporated (it turns an even white color) blend it until thickening, incorporated and cooled. This should only take about 2-3 minutes. When the mixture starts to thicken, check your temperature. When the temperature is about 35°-38°C (95°-100°F), remove the mixing vessel from the water and place it on the counter.

5. Check the weight of your batch to make sure you still have 300 grams (10 ounces), add more water if needed to replace what may have evaporated.
6. Verify the temperature is 35°-38°C (95°-100°F). Then add Phase C to the pot and mix well.
7. Pour the cream when it has cooled, but not "set up". It will continue to set up (for approximately 24 hours) as it sits in the containers. This recipe is suitable for pump bottles.

Makes 300 grams (10 ounces)

Ingredients in **bold** are carried by Lotioncrafter.

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