

Recipe B Calculations

LOTION RECIPE B (end result is more creamy due to beeswax)			
Raw Ingredient	Percent	For 1 Person (0.1L)	For 12 Persons (1.2L)
Coconut Oil	20%	20g	240g
Sunflower Oil	25%	25g	300g
Beeswax	2.5%	2.5g	30g
Rosehip Oil	5%	5g	60g
Emulsifying Wax NF	5%	5g	60g
Glycerin	7.5%	7.5g	90g
Water	35%	35g	420g
Total	100%	100g	1200g

Recipe B Protocol

1. Weigh out your **hydrophobic oils** components and add them to a labeled mason jar.

The hydrophobic oil components are those that are not soluble in water -- Coconut Oil, Sunflower Oil, Rosehip Oil.

2. Weigh out the emulsifying agent and add to the mason jar containing oils. Close up the mason jar and put it in the water bath.
3. Weigh out beeswax and place into flask. Place flask into microwave for about 1 minute.

Working with beeswax can be pretty tough since it's melting point is pretty high (64C). It might take some patience and a few microwaves to get it right.

4. Weigh the water you need (in a glass beaker or flask), and boil on hotplate.
5. As the water is boiling, weigh out the glycerin and add it to a 3L beaker.

6. Once the water is boiled, add it to the 3L beaker containing glycerin.

Maintaining equivalent temperatures is essential when you get ready to mix the hydrophobic and hydrophilic components.

7. Check that the beeswax has melted -- if not, microwave a little more.
8. Prepare your station for creating the emulsion by gathering your emulsion blender and medium-sized beaker.
9. Also find the largest beaker (5L) and fill it about one third of the way with ice water (this will be used in a few minutes).
10. When you are ready, start blending the water/glycerin mixture with the emulsion blender to create a vortex.

If you would like to add a pinch of matcha green tea powder here, now is the time!

11. While keeping a vortex going, SLOWLY drizzle in the hydrophobic components. It should take at least 1-2 minutes to transfer all of the oils into the water.
12. Then slowly drizzle your melted beeswax into the vortex
13. After about 3-5 minutes of blending, place your medium beaker into the beaker containing cold water to help cool the liquids and expedite the formation of the emulsion.
14. Mix well for about 15-30 minutes, turning off the stick blender every few minutes to scrape the sides of the container with a spatula

Do not lift the stick blender above the mixture or else you will make a huge mess, and add too much air to the moisturizer

15. Once the mixture is efficiently combined, scoop into jars that have been labeled and dated.

General Notes

Once your lotion and cream is finished, feel free to add essential oils at home to give it "flavor."

Please note that we are NOT adding any type of preservative to prevent microbial growth. This means your lotion and or cream might grow some bugs! To help prevent this, you can keep your lotion and cream jar in the fridge.

Lastly, feel free to experiment with different ingredients. I have played around with different oils and waxes with some success (and some failure, but it's always fun!). You can also add things like vitamin E oil (when the mixture has cooled down a bit, but isn't quite yet thickened), green tea powder, or other types of scented things. There is no right or wrong, so go for it! Trial and error is what science is all about...