

Tanning lotion

Ingredients

Phase	%w/w input	Ingredient
A	56.30	Water
B	8.00	Propanediol
B	0.50	Sclerotium gum
C	5.00	Cetearyl Alcohol, Cetearyl Glucoside (Montanov 68/Emulgade PL68/50/ SugarMulse)
C	4.00	Avocado oil
C	6.00	Isoamyl Laurate (Dermofeel Sensolv)
D	1.00	Benzyl Alcohol, Salicylic Acid, Glycerin, Sorbic Acid (Geogard ECT)
D	0.50	Fragrance - select your own!
D	2.00	Calendula extract - glycerin
D	0.40	Tocopherols - mixed
D	11.30	Fair skin instant colour
E	5.00	Dihydroxyacetone (DHA)
	q.s.	pH Adjuster



Just pick ingredients you want.
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<https://createcosmeticformulas.com>

Method

1. Measure out phase A.
2. Combine phase B to form a slurry then add to phase A. Stir through until evenly dispersed (note, gum needs overnight to swell fully - so make your product today but you'll need to give your product a final stir tomorrow).
3. Heat phase A/B to 75°C. Combine phase C and heat to 75°C. Add phase C to phase A/B under high shear stirring and mix until a smooth, glossy, homogenous emulsion forms.
4. Allow mixture to cool under low shear stirring until <40°C. Add phase D and stir through under low shear until homogenous.
5. Check/adjust pH to <6.0 using acid only if required. Do NOT use alkalising agent at any time. Once pH is <6.0, add phase E and stir through until fully dissolved and homogenous.
6. Allow to cool <25°C. Check/adjust final pH to <6.0. Do NOT use alkalising agent at any time. Product will need overnight to set fully, so don't evaluate it on the day you make it. Cover product and give it a final stir the next day before packing off.

Disclaimer: This formula and method has been developed based on the theoretical selection of listed ingredients; all costs associated with producing a sample of this product is the user's responsibility including any reworks or fails. IPCS recommends a 100g lab scale sample be made and pilot production prior to full scale production.

Please refer to supplier Safety Data Sheets (SDS/MSDS) to ensure safe handling of all raw materials. IPCS holds no responsibility for inappropriate use of materials selected, the formulation or method, in part or as a whole.

It is a condition of use of this formula and method that the user holds full responsibility for ensuring safe and correct use and storage of any materials they source and use, as well as ensuring compliance with local regulations and 'clean product preparation' steps are followed when producing samples, especially for use by others. Evaluations of the safety, stability and suitability of this formula, method and finished product are the sole responsibility of the user.

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INCI names provided on this site are used as a guide to assist with selections and product descriptions. Users will need to source and check full material information from their suppliers and prepare compliant ingredient lists specific to the materials they actually use.