

Sunscreen Lotion (o/w) with Aloe Vera SPF 12- 19

(Sample Recipe for Micronized Titanium Dioxide)

Sunscreen Lotion (o/w) with Aloe Vera, SPF 12- 19		
	Weight %	For 240 g / 8.5 oz
Phase A		
Distilled Water	62.5 %	150 g / 5.4 oz
Xanthan Gum	0.5 %	1.2 g / 0.04oz (1/2 tsp)
EDTA	0.2 %	0.5 g / 0.02 oz (1/4 tsp)
Phase B		
Aloe Vera	6 %	14.4 g / 0.5 oz
Sorbitol or Glycerin	2 %	4.8 g / 0.2 oz
Phase C		
Jojoba Oil	9 %	21.6 g / 0.8 oz
Titanium Dioxide (micronized)	6 %	14.4 g / 0.5 oz
Triglyceride	4 %	9.6 g / 0.34 oz
Sorbitan Stearate	1.5 %	3.6 g / 0.12 oz
Polysorbate 60	3 %	7.2 g / 0.26 oz
Vitamin E Acetate	1 %	2.4 g / 0.1 oz
Cetyl Alcohol	2.5 %	6 g / 0.2 oz
Phase D		
Vitamin C	0.5 %	1.2 g / 0.04oz (1/2 tsp)
Paraben- DU	1 %	2.4 g / 0.1 oz
Fragrance	0.3 %	0.7 g / 0.03oz (16 drops)
Method		
Give hot distilled water and EDTA into a clean and disinfected glass beaker, sprinkle xanthan gum into it and stir with high speed. Add phase B to phase A and stir. Prepare phase C in a separate, heat resistant glass beaker and heat to 150oF/66oC. Stir well until the mixture is homogenous. Heat up also phase A/B to (maximum 150oF/66oC). Remove the two phases from the heat and add phase C to phase A/B. Mix thoroughly and cool it down to 100oF/40oC. Finally, add phase D and stir again.		
Properties		
This sunscreen lotion provides UVA and UVB protection, the amount of micronized titanium dioxide can be increased to get an even higher UV protection. Please check our sunscreen chart.		