

Light Sunscreen Cream–Gel SPF 15–18

Phase A	Weight %	For 240 g / 8.5 oz
Distilled Water (diluent)	62.6 %	155 g / 5.5 oz
Glycerin (humectant)	4 %	9.6 g / 0.3 oz
ETDA (stabilizer)	0.2 %	0.5 g / 0.02 oz / 1/4 tsp
Phase B		
Collagen Protector (active ingredient)	3 %	7.2 g / 0.25 oz 1 1/2 tsp
Phase C		
OM–Cinnamate (sunscreen UVB)	5 %	12 g / 0.4 oz / 2 1/2 tsp
Oxybenzone (sunscreen UVB/UVA)	4 %	9.6 g / 0.3 oz / 1 Tbsp 1/2 tsp
Liquid Titanium Dioxide (sunscreen UVB/UVA)	2 %	4.8 g / 0.2 oz / 1 1/4 tsp
Triglyceride (emollient)	8 %	19.2 g / 0.7 oz / 4 tsp
Vitamin C Ascorbyl Palmitate (antioxidant)	1 %	2.4 g / 0.1 oz / 1 tsp
Vitamin E Acetate (antioxidant)	1 %	2.4 g / 0.1 oz / 50drops
Cyclo–Dimethicone (emollient)	1 %	2.4 g / 0.1 oz / 50 drops
Phase D		
GelMaker EMU (thickener, emulsifier)	3 %	7.2 g / 0.25 oz / 1 1/2 tsp
Phase E		
Lacto–Ceramide (active ingredient)	4 %	9.6 g / 0.3 oz / 2 tsp
Paraben–DU (preservative)	1 %	2.4 g / 0.1 oz / 50 drops
Fragrance	0.2 %	0.5 g / 0.02 oz / 12 drops

Method

Mix phase A into a glass beaker and heat to 150oF/66oC. Add phase B to phase A and stir. Remove from the heat. Add phase C into another glass beaker and heat to 165F/74 until the ascorbyl palmitate is melted. Remove from the heat. Add phase D to phase C and stir well. Add phase C/D to phase A/B and stir well to form the Cream–Gel. After the temperature has cooled to 100F/40C add phase E and stir again well. The viscosity can further be adjusted with GelMaker EMU.

Properties

Light textured Cream–Gel with UVA and UVB protection plus anti–oxidants such as vitamin c and vitamin E. "Collagen Protector" protects actively from sun damage and skin aging, the liposomes of lacto–ceramide act as potent moisturizer.