

## Skin-Lightening Cream with Kojic Acid

(Sample Recipe for Kojic Acid)

### Skin-Lightening Cream with Kojic Acid

Phase A	Weight %	For 100 g /3.6 oz
Distilled Water (diluent)	59.6 %	59.6 g / 2 oz / 1/4 cup
Corn Starch AS (mattifying agent)	2 %	2 g / 3/4 tsp
Glycerin (humectant)	3 %	3 g / 1/2 tsp
<b>Phase B</b>		
Octocrylene (UVB sunscreen)	5 %	5 g / 0.2oz / 1 tsp
OM-Cinnamate (UVB sunscreen)	7.5 %	7.5 g / 0.3 oz / 1/2 Tbsp
Emulsifier Blend (emulsifier)	4 %	4 g / 0.1 oz / 1/2 Tbsp
Avobenzene (UVA sunscreen)	2 %	2 g / 1/2 tsp
Vitamin E Acetate (antioxidant)	0.5 %	0.5g / 11 drops
Cetyl Alcohol (thickener, emollient)	2 %	2 g / 3/4 tsp
<b>Phase C</b>		
Distilled Water (diluent)	10 %	10 g / 0.4 oz / 2 tsp
Kojic Acid (skin lightener)	2 %	2 g / 1/2 tsp
Vitamin C Magnesium Ascorbyl Phosphate (skin lightener)	1 %	1 g / 1/2 tsp
Phenoxyethanol/SA (preservative)	1.2 %	1.2 g / 27 drops
Fragrance	0.2 %	0.2 g / 5 drops

#### Method

Add phase A into a disinfected, heat-resistant glass beaker and mix the corn starch thoroughly avoiding the formation of lumps. Heat phase A to (167oF/75oC). Heat phase B in a separate beaker to the same temperature until the ingredients are melted, stir frequently. Add phase B to phase A and stir until it is a homogenous cream, remove from the heat. Cool to 40C/100F, stirring frequently. Dissolve kojic acid in the distilled water (phase C) and add to phase A/B, stir well. Add the other ingredients of phase C to phase A/B and stir. The cream can be filled into treatment pumps or jars.

#### Properties

Skin whitening cream with kojic acid that inhibits skin cells to produce melanin pigments. Needs up to 6 weeks of daily application to show results in lighten age spots and dark skin areas. Contains sunscreen to protect your skin, SPF value between 15–20 (has not exactly been determined). Kojic acid is not a very stable ingredient and products should therefore be used up fairly quickly.