

1571 - Beta-Carotene Cream (100.00g)

Ingredient	Function	Percent	Wgt (g)	Wgt (oz)	Vol (tsp.)
Phase A					
Distilled Water (aqua)	Diluent	82.50	82.50	2.91	16.50
Sorbitol (sorbitol)	Humectant	1.00	1.00	0.04	0.20
Xanthan Gum, Prehydrated (xanthan gum)	Thickener	0.40	0.40	0.01	0.08
Sodium Gluconate (sodium gluconate)	Stabilizer	0.10	0.10	0.00	0.02
Triethanolamine (triethanolamine)	pH Adjust	0.20	0.20	0.01	0.04
Urea (urea)	Humectant	2.00	2.00	0.07	0.40
Phase B					
Glyceryl Stearate Citrate (glyceryl stearate citrate)	Emollient	2.50	2.50	0.09	0.50
Carrot Oil & Beta-Carotene Helianthus Annuus seed oil, Daucus Carota Sativa root extract, Daucus Carota Sativa seed oil, beta-carotene, ascorbyl palmitate	Emollient	1.00	1.00	0.04	0.20
Squalane Light (hydrogenated farnesene)	Emollient	5.00	5.00	0.18	1.00
Glycol Stearate IP (glycol stearate, stearamide AMP)	Co-Emulsifier	1.50	1.50	0.05	0.30
Cetyl Alcohol (cetyl alcohol)	Thickener	1.50	1.50	0.05	0.30
Vitamin E Acetate (dl-alpha tocopheryl acetate)	Antioxidant	0.50	0.50	0.02	0.10
Vitamin E Tocopherol (dl-alpha tocopherol)	Antioxidant	0.50	0.50	0.02	0.10
Phase C					
Phenylpropanol EHG Phenylpropanol, ethylhexyl glycerin	Preservative	0.80	0.80	0.03	0.16
Provitamin B5 (d-panthenol, water)	Vitamin	0.50	0.50	0.02	0.10

Method

1. Combine water, sorbitol, sodium gluconate, and urea in a heat-resistant beaker and stir well to dissolve. 2. Add gum, stir well, and allow to hydrate for 10 minutes. 3. Adjust pH to 6 with triethanolamine if necessary. 4. Combine phase B ingredients in a separate beaker. Heat both to 65 - 70 C. 5. Add phase B to A, stirring well and remove from heat. Homogenize, and continue to stir until cooled. 6. Add phase C ingredients and stir again. ~pH 5.5

Properties

Beta-carotene effectively prevents and controls the production of free radicals and also reduces free radical reactions and restrict oxidative/free radicals-induced damage. Combined with two different vitamin E and urea to moisturize.