

From our Formulary **DIY C&E with Ferulic Acid**



We've had so many requests for a DIY C&E with Ferulic serum that we set about to duplicate it for you. Like the original patented **CE Ferulic** by SkinCeuticals, this serum contains 15% L-Ascorbic Acid with 1% d-Alpha Tocopherol and Ferulic Acid to stabilize it. CE Ferulic is an antioxidant combination that protects against photoaging by neutralizing free radicals, helping to build collagen and providing antioxidant protection.

This is a patented product so you shouldn't sell it, but for the DIY formulator making things for their own use, you'll find this duplication quick, easy and inexpensive to make!

Formula

	Percent	Grams	Ounces	Ingredient
Phase A	45.7	91.4	3.040	Distilled Water
	0.5	1.0	0.033	Triethanolamine
	0.5	1.0	0.033	Ferulic Acid
	0.5	1.0	0.033	dl-Panthenol
Phase B	0.1	0.2	0.006	Hyaluronic Acid
Phase C	20.0	40.0	1.333	Ethoxydiglycol
	10.0	20.0	0.666	Propylene Glycol
	3.0	6.0	0.200	Glycerin
	3.0	6.0	0.200	Laureth-23
	1.0	2.0	0.066	d-Alpha Tocopherol or 95% Mixed Tocopherols
	0.7	1.4	0.046	Phenonip
Phase D	15.0	30.0	1.000	L-Ascorbic Acid Ultra Fine Powder
Phase E	Q.S.	Q.S.	Q.S.	Triethanolamine

1. Combine Water and Triethanolamine in Phase A, add balance of Phase A ingredients and stir until mixture is clear. It will be light yellow due to the color of the Ferulic Acid.
2. Sprinkle Phase B ingredient on surface of Phase A and mix well with paddle mixer until mixture is smooth and evenly hydrated. Alternately, you can sprinkle the Hyaluronic Acid on top of Phase A and let it sit for 3 hours to hydrate and then mix it in (this is in accordance with patent formulating information).
3. Combine and heat Phase C ingredients to 60°C (140°F) and remove from heat. Gently stir to combine.
4. Add Phase C to Phase A/B with stirring until combined solution is clear.

5. Add Phase D and mix until clear.

6. Test the pH. Adjust to final pH 3.5 with quantity sufficient of Triethanolamine. This pH is per patent formulation information. We have tested retail SkinCeuticals CE Ferulic and found the pH to be 4.0. Adjust to this higher pH if desired.

Makes approximately 200 grams or 6.66 ounces of serum. Ingredients can be cut in half to make only 100 grams or 3.33 ounces of serum at a time.

Notes:

Q.S. is an abbreviation for the Latin quantum sufficiat, quantum sufficit, or quantum satis, phrases which all mean "as much as suffices" or "quantity required."

Don't try to substitute Mixed Tocopherols T50 (which contains 50% soybean oil) or Vitamin E Acetate for the d-Alpha Tocopherol in the formulation. The resulting mix will not be clear or fully solubilized. You can substitute Mixed Tocopherols 99% for the D-Alpha Tocopherol, as these are pure tocopherols without the soybean added to dilute them. d-Alpha Tocopherol can generally be found in capsule form in a health food store. Mixed Tocopherols 95% will be available soon through Lotioncrafter.

This formulation is meant to be made with regular Hyaluronic Acid, not Hyaluronic Acid SLMW as the SLMW does not thicken the solution at all. The slight serum-like consistency can only be achieved with a higher molecular weight Hyaluronic Acid.

We recommend this formulation be packaged in packaging that will reduce its exposure to light as we have found that clear glass or plastic packaging will promote faster oxidation (evident as the formulation turns from a light yellow to a deeper gold over time). If you must package in a clear container, keep it in a dark cupboard as much as possible.

INCI: Water, Ethoxydiglycol, L-ascorbic Acid, Propylene Glycol, Glycerin, Laureth-23, Tocopherol, Phenoxyethanol, Triethanolamine, Ferulic Acid, Panthenol, Sodium Hyaluronate, Methylparaben, Ethylparaben, Butylparaben, Propylparaben, Isobutylparaben

© Lotioncrafter 2011 All Rights Reserved

Ingredients in **bold** are carried by Lotioncrafter

The information given and the recommendations made herein are based on our research and are believed to be accurate but no guarantee of their accuracy is made and we assume no liability regarding this formula or information contained herein. In every case we urge and recommend that our customers make their own tests to determine to their own satisfaction whether the product is suitable for their particular purposes under their own operating conditions. Nothing contained herein shall be construed to imply the nonexistence of any relevant patents or to constitute a permission, inducement or recommendation to practice any invention covered by any patent, without the authority from the owner of this patent.

Lotioncrafter LLC 532 Point Lawrence Rd., Olga, WA 98279 Tel: 360-376-8008
email: sales@lotioncrafter.com Visit us at: www.lotioncrafter.com