

Concentrated Vitamin C Cream (131127E-4-F1)

INCI Name	<u>Ingredient</u>	<u>%</u>
A Cetyl Alcohol (and) Glyceryl Stearate (and)	Emulium Delta	6.50
PEG-75 Stearate (and) Ceteth-20 (and)		
Steareth-20		
A Cetearyl Alcohol	Nafol 1618H	2.00
A Octyldodecyl Myristate	Corum 5024	5.00
A Octyldodecyl Stearoyl Stearate	Corum 5047	3.00
A Macadamia Integrifolia Seed Oil	Floramac Macadamia Refined Oil	3.00
A Dimethicone	BELSIL® DM 350	3.00
A Isohexadecane	Permethyl 101A	7.00
A Persea Gratissima (Avocado) Oil	Avocado (Persea Gratissima) Oil	2.00
A Phytosteryl Hydroxystearate	Corum 5081	0.50
B Water	Water T	o 100.00
B Xanthan Gum	FMC XG 80	0.15
C Sodium Citrate, Dihydrate	Sodium Citrate	0.74
C N,N,N',N'-Ethylenediaminetetrakis	TCI E0393	0.10
(methylene-phosphonic Acid) Hydrate		
C Citric Acid Monohydrate	Citric Acid	0.65
D 1,3-Butylene Glycol	1,3-Butylene Glycol	3.00
D Methylparaben	Methylparaben	0.10
E Phenoxyethanol	Phenoxyethanol	0.50
E Fragrance	Rose TK 12801	0.04
E Fragrance	Lavande TK 6767K	0.01
E Ethanol	Alcohol (95%)	3.00
E 3-O-Ethyl Ascorbic Acid	Et-VC TM	4.00

Appearance: White Cream

pH Value (25°C) ∶ 4.19 by Cyber Scan pH510

Viscosity: 162,000 cP

Instrument Model	Spindle No.	Speed (rpm)	Test Period (Sec)	Temperature (℃)	% Torque	Container
Brookfield viscometer DV- II +Pro	LV4 64	2	30	25	55	20g Bottle

Procedure:

- 1. Pre-mix Part B until uniform and then add Part C into Part B while stirring.
- 2. Heat Part D until it has fully melted, and then add Part D into Part B/C while stirring.
- 3. Heat Part A and Part B/C/D to 75-80°C. Mix Part B/C/D with Part A using high speed.
- 4. Stir for 5 minutes before removing from heat source.
- 5. At 40°C, add Part E ingredients in sequence and mix well.

This is only a reference formulation. Before commercialization, it is recommended to thoroughly test the formulation or any variation of it to determine its final stability, performance, efficacy and safety.



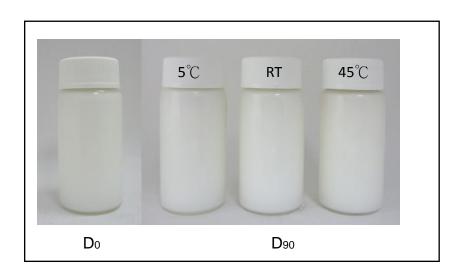
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Formulation stability assessment

	2 Dave	90 Days			
	3 Days	5℃	RT	45 ℃	
Appearance (25℃)	White Cream	White Cream	White Cream	Slightly Yellow	
				Cream	
¹ pH Value (25°ℂ)	4.19	4.14	4.14	3.97	
² Viscosity (cP)	162,000	162,000	153,000	142,000	
S64/ 2rpm/ 30 Sec/ 25°C	102,000	102,000	133,000	142,000	
³ Centrifugal Test	Pass	-	-	-	
⁴ Assay(g)	3.982	-	-	3.481062998	
Degradation(%)	-	-	-	12.5800352	
Stability assessment result	Pass	Pass	Pass	Pass	

¹: Cyber Scan pH510

⁴: Agilent 1260 HPLC



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 $^{^3}$: Put the product in the oven at 50 $^\circ\!\mathrm{C}$ $\,$ for 1 hour, then centrifuge at 5000rpm for 30 minutes.