


Title: Mass Market SPF Day Cream	Formulation #: KL5-16/1
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SPF Day Cream with a beautiful skin feel, at a mass market formulation price point! Celltice WM effectively emulsifies the UV filters and emollients in this formulation at only 5% usage level. A wonderful starting point for your next project.

Feature	Product Type	Product Function	Method
	Day cream	Sun protection, Hydration	Cold process

Key Ingredients

Trade Name	INCI / OTC Name	Wt%
Phase A		
Deionized Water	Water	45.70
Keltrol® CG-T (CP Kelco)	Xanthan Gum	0.10
Glycerin (Various)	Glycerin	3.00
1,3 Butylene Glycol (Various)	Butylene Glycol	5.00
Versene™ Na ₂ (Dow Chemical)	Disodium EDTA	0.10
Caffeine	Caffeine	0.50
Potassium Sorbate (Various)	Potassium Sorbate	0.10
Celltice® WM (Renmatix)	Water (and) Acer Rubrum Extract (and) Glycerin	5.00
Phase B		
Dermol DIA (ALZO International)	Diisopropyl Adipate	5.00
Neo Heliopan® HMS (Symrise)	Homosalate	10.00
Neo Heliopan® OS (Symrise)	Octisalate	5.00
Neo Heliopan® 303 (Symrise)	Octocrylene	5.00
Neo Heliopan® 357 (Symrise)	Avobenzone	3.00

Vegelight 1214LC (Grant Industries)	Coconut Alkanes (and) Coco-Caprylate/Caprata	4.00
Lexfeel N5 (Inolex)	Diheptyl Succinate (and) Capryloyl Glycerin/Sebacic Acid Copolymer	2.00
Phase C		
Matrixyl 3000 (Sederma)	Glycerin (and) Aqua (and) Butylene Glycol (and) Carbomer (and) Polysorbate 20 (and) Palmitoyl Tripeptide-1 (and) Palmitoyl Tetrapeptide-7	3.00
Sodium Hyaluronate	Sodium Hyaluronate	2.00
Aristoflex AVC (Clariant)	Ammonium Acryloyldimethyltaurate/VP Copolymer	0.60
Diocide (Centerchem)	Caprylyl Glycol (and) Phenoxyethanol (and) Hexylene Glycol	1.00

Instructions:

- 1) In main vessel add Deionized Water. Dissolve Glycerin, Butylene Glycol, Caffeine, VerseneNa2. With rapid mixing disperse Keltrol CG-T. Mix until uniform.
- 2) With rapid mixing add Celltice WM
- 3) Prepare oil phase by combining all Neo Heliopan ingredients in secondary vessel. Heat to 60-80 Celsius until completely dissolved and uniform. Remove from heat
- 4) Add remaining oil phase ingredients, mix until uniform
- 5) Add oil to cold water. Immediately homogenize until uniform. Add Sodium Hyaluronate, Matrixyl 3000 and Diocide
- 6) Mix until uniform, add Aristoflex AVC while mixing. QS if needed

pH: 5.20

Viscosity: 50,927 cps

**Brookfield LVDVII+ TF @ 6 rpm 1 min. Helipath on.*

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