

Sulfate-Free PEG-Free Shampoo Formulation J7/93A LP

Phase	Ingredients	INCI Nomenclature	Supplier	%
A	DI Water	Water		47.1
B	Methocel E-4M	Hydroxypropyl Methylcellulose	Aqualon	0.8
B	Glycerin 99	Glycerin	JEEN Int'l	4.0
C	JEECHEM® Concentrate SF-24	Disodium Laureth Sulfosuccinate & Sodium Cocoyl Isethionate & Cocamidopropyl Betaine & Sodium Methyl Cocoyl Taurate	JEEN Int'l	35.0
C	JEEMIDE® CME	Cocamide MEA	JEEN Int'l	3.0
C	JEECHEM® EGMS	Glycol Stearate	JEEN Int'l	0.2
D	DL Panthenol	Panthenol	JEEN Int'l	0.1
D	JEECHEM® 100WP	Hydrolyzed Wheat protein	JEEN Int'l	1.0
D	Botanical's Plus Conditioning Herbal Extract Blend	Arnica (Arnica Montana) Extract & Echinacea (Echinacea Purpurea) Extract & Horsetail Extract & Rosemary Extract	Botanicals' Plus	0.5
E	JEECIDE® Phenoxy	Phenoxyethanol	JEEN Int'l	0.5
F	Potassium Sorbate	Potassium Sorbate	JEEN Int'l	0.1
F	DI Water	Water		2.0
G	Salt	Sodium Chloride		1.5
G	DI Water	Water		4.0
H	Citric Acid	Citric Acid		0.2
Total				100.0

Procedure:

1. Charge Phase A water to the main mixing tank.
2. Premix Phase B ingredients and add to A. Mix for 15 minutes. Heat to 65-70C.
3. Add Phase C ingredients one at a time ensuring each is dissolved before adding the next.
4. Cool batch to 50C.
5. Add Phase D ingredients one at a time ensuring each is dissolved before adding the next.
6. Cool the batch to 40C.
7. Add Phase E.
8. Pre-mix Phase F and add to the batch.
9. Pre-mix Phase G and add to the batch.
10. Add Phase H and mix well.
11. Cool to RT.

Specifications:

pH – 4.5 - 5.5

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