

## Colour Protect Shampoo (OS-12)

**SeraShine® EM 321-E** is an amino-functional emulsion which is highly substantive to hair, protecting from colour leaching during washing. IT also leaves hair feeling soft, smooth and healthy. **Vida-Care PQ-10** adds light conditioning and aids deposition.

Raw Material/INCI Name	% w/w	Trade name/Supplier	Function
Aqua (Water)	To 100	-	Vehicle
Glycerin	1.00	Surfac G995V/Surfachem	Dispersing Agent
<b>Polyquaternium-10</b>	<b>0.20</b>	<b>Vida-Care PQ-10/KCC Basildon</b>	<b>Conditioning/Silicone Deposition Aid</b>
Sodium Laureth Sulfate	25.00	Steol CS 230 KE/Surfachem (Stepan)	Anionic Surfactant
Sodium Lauryl Sulfate	15.00	Stepanol WA-Extra-E/Surfachem (Stepan)	Anionic Surfactant
Acrylates Copolymer	4.00	Carbopol Aqua SF-1/Surfachem (Lubrizon)	Suspending Agent
Cocamidopropyl Betaine	6.00	Surfac B4/Surfachem	Amphoteric Surfactant
Sodium Hydroxide	0.44	Sodium Hydroxide 32% Liquor/Univar	pH Adjuster
Sodium Benzoate	0.30	Surfac Sodium Benzoate BP/Surfachem	Preservative
Styrene Acrylates Copolymer (and) Aqua (and) Sodium Lauryl Sulfate	0.80	Lytron 180 AV/Azelis (Omnova)	Opacifier
Aqua (Water)	3.20	-	Vehicle
Salix Alba (and) Aqua (and) Propylene Glycol (and) Preservative	0.20	Willow Extract HG/Azelis (Provital)	Natural Extract
<b>Amodimethicone (and) Trideceth-12 (and) Cetrimonium Chloride</b>	<b>4.00</b>	<b>SeraShine® EM 321-E/KCC Beauty</b>	<b>Conditioning Agent</b>
Parfum (Fragrance)	0.50	Big Hair Day Fragrance/Givaudan	Fragrance
Citric Acid	<i>q.s.</i>	Surfac Citric Acid Mono BP/Surfachem	pH Adjuster
Sodium Chloride	<i>q.s.</i>	Sodium Chloride PVD/British Salt	Thickener

## Typical Properties

Appearance:	Opaque, white viscous liquid
Viscosity @ 25°C:	5000 - 7000cP (Brookfield RVT, Sp3, 10rpm)
pH @ 25°C:	4.5 - 4.8

### Method

Add the water to the vessel and begin stirring.

Premix the glycerin and the Vida-Care PQ-10. Add to the batch and stir until dispersed.

Add the surfactants and Carbopol. Adjust the pH to 6.50 - 7.50 with NaOH after addition of the Carbopol.

Premix the Lytron and water and add to the batch.

Add the rest of the ingredients in order, stirring well between additions.

Check pH and viscosity and adjust as necessary.

Please note that the above formulation is only intended as a guide. It is not a commercial formulation and has not been tested as such. The formulation should be evaluated and modified for your own requirements before use. Also suggestions of uses should not be taken as inducements to infringe any particular patent.

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