


# Formulation

Name	<b>GOODNESS, GORGEOUS! -- MATCHA &amp; EGG YOLK HAIR MASK</b>	
No.	1309	
Description	Green tea is just as good for your hair as it is for your health! Components in matcha (powdered green tea) stimulate your hair follicles for potential aid in hair growth. For even more goodness, this hair mask uses STEPANQUAT® HELIA, a modern, naturally derived conditioning agent that is better for your hair and the environment.	
Formulation	<u>INGREDIENTS:</u>	<u>% by Weight</u> <u>Functionality</u>
	=== Phase 1 ===	
	Deionized Water	q.s. to 100 Carrier
	Natrosol™ 250 HHR CS (Ashland™) Hydroxyethylcellulose	1.5 Thickener
	=== Phase 2 ===	
	STEPANQUAT® HELIA	2.5 Conditioning Agent
	HallStar® CO-1895 Stearyl Alcohol NF (The HallStar Company)	5.0 Emulsifier
	HallStar® CO-1695 Cetearyl Alcohol NF (The HallStar Company)	2.0 Emulsifier
	STEPAN-MILD® GCC	0.5 Emollient
	=== Phase 3 ===	
	Deionized Water	5.0 Diluent
	Potassium Chloride	0.5 Opacifier, Thickener
	Citric Acid, 50% Solution	q.s. pH Adjuster
	Preservative	q.s. Preservative
	=== Phase 4 ===	
	Matcha Powder	1.0 Additive
	Egg Yolk Powder	0.2 Additive
	Natural Oils and Fragrance	0.7 Additive, Fragrance
	<b>Total</b>	<b>100.0</b>
Procedure	<ol style="list-style-type: none"> <li>1. Charge Deionized Water to a container with mixing and heating properties. Begin to mix.</li> <li>2. Charge Natrosol™ 250 HHR CS and mix until homogenous. Heat to 70-75°C (158-167°F).</li> <li>3. Add STEPANQUAT® HELIA and mix until homogenous.</li> <li>4. Add HallStar® CO1895 Stearyl Alcohol NF, HallStar® CO-1695 Cetearyl Alcohol NF, and STEPAN-MILD® GCC. Mix for 30 minutes.</li> <li>5. While mixing, cool to 45°C (113°F).</li> <li>6. In a separate beaker, dissolve Potassium Chloride in Deionized Water. Add to batch with mixing.</li> <li>7. Adjust the pH for a target of 3.5-4.5 with Citric Acid solution.</li> <li>8. Add Matcha Powder, and Egg Yolk Powder, and Natural Oils and Fragrance. Mix gently until completely homogenous.</li> <li>9. While mixing, cool to room temperature.</li> </ol>	
Physical Properties	Appearance, as is	Green viscous lotion*
	pH, as is	3.5-4.5

	Viscosity at 25°C, LVT #3 at 12 rpm, cps	8,000-15,000
Storage/ Stability	4 weeks at 5°C	Stable
	4 weeks at 25°C	Stable
	4 weeks at 45°C	Stable
	Freeze/Thaw 3 cycles	Pass
Instructions for Use	Use once a week as a deep conditioning treatment. After shampooing, generously apply to wet hair, concentrating on ends and roots. Leave on for 5 minutes, then rinse thoroughly.	
External Comment	*The initial color of this formulation is incidentally due to some ingredients used and is likely to fade over time. Marketing Notes: BCI = 90. Total Biorenewable Carbon Index (BCI) was calculated only for the Stepan surfactants used in this formulation. Other non-Stepan ingredients were not evaluated. For further information on Stepan's BCI, visit <a href="http://www.stepan.com">www.stepan.com</a> . Naturally derived is defined as ingredients with a BCI of greater than 50% but less than 100%.	
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	<p>Stepan Company Northfield, Illinois 60093 Telephone (847) 446-7500</p>	

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