



# Formulation

Name	<b>SCALP TREATMENT: SCALP SERUM</b>		
No.	1500		
Description	After a thorough cleansing of your scalp, replenish some of its moisture with this gentle serum formulated for normal-to-dry-type skin. This formulation is step 5 of Stepan's 5-Step Scalp Care Routine.		
Formulation	<b>INGREDIENTS:</b>	<b>% by Weight</b>	<b>Functionality</b>
	=== Phase 1 ===		
	Deionized Water	q.s. to 100.00	Carrier
	KELTROL® CG LAX-T (CP Kelco) Xanthan Gum	0.60	Rheology Modifier
	=== Phase 2 ===		
	Glycerin	5.00	Humectant
	Zemea® Propanediol (DuPont Tate & Lyle Bio Products)	3.00	Humectant
	Propanediol		
	=== Phase 3 ===		
	Tween™ 20 (Croda Inc.) Polysorbate 20	4.00	Solubilizer
	NEOBEE® M-5 COSMETIC	1.00	Emollient
	Cafeisilane (Biosil Technologies, Inc.)**	0.10	Conditioning Agent
	Entrada® SQ (Advonex International Corp.) Squalene	0.50	Conditioning Agent
	=== Phase 4 ===		
	Citric Acid	q.s.	pH Adjuster
	Sodium Hydroxide	q.s.	pH Adjuster
	Microcare® SBB (THOR Specialties, Inc.)**	0.50	Preservative
	Fragrance	0.25	Fragrance
	<b>Total</b>	<b>100.00</b>	
Procedure	<ol style="list-style-type: none"><li>1. In a suitable vessel equipped with heating and agitation capabilities, charge Deionized Water.</li><li>2. Sprinkle in KELTROL® CG LAX-T into vessel. Mix until well dispersed.</li><li>3. Add Glycerin and Zemea® Propanediol. Start heating to 45°C (113°F). Continue mixing.</li><li>4. In a separate vessel premix phase 3 ingredients. Start heating to 45°C (113°F). Mix until clear.</li><li>5. Add premix to the main vessel with agitation. Mix for 10-15 minutes while maintaining temperature at 45°C (113°F).</li><li>6. Adjust pH with Citric Acid (to decrease pH) or Sodium Hydroxide (to increase pH) if necessary.</li><li>7. Add Microcare® SBB and fragrance. Cool to ambient temperature with slow agitation.</li></ol> <p>**Note: Cafeisilane is supplied by Biosil Technologies, Inc. and has the following INCI Name: Siloxanetriol Alginate (and) Caffeine. Microcare® SBB is supplied by THOR Specialties, Inc. and has the following INCI Name: Benzyl Alcohol, Benzoic Acid, Sorbic Acid.</p>		
Physical Properties	Appearance at 25°C	Translucent liquid	
	pH, as is	5.5 - 6.0	
	Viscosity at 25°C, cps	Water thin	
Storage/	4 weeks at 5°C	Stable	

Stability	4 weeks at 25°C	Stable
	4 weeks at 40°C	Stable
	Freeze/Thaw, 3 cycles	Pass

Instructions for Use    Apply two pumps per use to cover the scalp. Avoid immediate eye area. Use after washing hair. May be left on the scalp or rinsed out with water.

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For Additional Assistance    For applications or product handling assistance, call our Technical Service Department at 1-800-745-7837 (U.S.) or +33 476 505 100 (Europe).  
For ordering assistance, call our Account Service Department at 1-800-457-7673.

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