



AHA Brightening Serum ARL-026-013-4

<u>PHASE A</u>	% W/W
Deionized Water (Water/Aqua)	60.00
Niacinamide PC ² (Niacinamide)	1.00
RitaLac LA USP ³ (Lactic Acid)	8.00
Glypure L70 ⁴ (Glycolic Acid)	4.30
<u>PHASE B</u>	
AQ. Sodium Hydroxide Solution, 50% (Sodium Hydroxide (and) Water/Aqua)	To Ph = 4.0 – 4.2
<u>PHASE C</u>	
Coscap G7-MC¹ (Glycereth-7 Trimethyl Ether)	6.00
Glycerine 99% (Glycerin)	4.00
Phenoithix[®] APT¹ (Ammonium Polyacryloyldimethyl Taurate)	2.50
Preservative	1.00
Deionized Water (Water/Aqua)	q.s. to 100%
	100.00

1. **Phoenix Chemical, Inc.**
2. DSM
3. Rita Corp.
4. The Chemours Company FC, LLC

Procedure:

In main kettle, charge water and carefully add, while mixing slowly, remaining ingredients of Phase A. Mix for 10 minutes. Add AQ Sodium Hydroxide Solution, 50% in small increments, mixing well and measuring pH, until pH reaches 4.0-4.2. Pre-mix Phase C in a side kettle; when mixed together, add to Phase AB while mixing (Phase C pre-mix will not be completely uniform, and will have lumps). Increase agitation speed and mix until fully uniform. Bulk will be hazy and have serum texture.

INGREDIENT	FUNCTION
Phenoithix APT	Efficient thickener for water-based systems.
Coscap G7-MC	Light, dry, silky emollient, stable over wide pH range.