

Glypure™

Cosmetic-Grade Glycolic Acid

Formulation—Skin Care Professional Anti-Aging Serum



Glypure™ professional anti-aging serum contains 5.6% glycolic acid, twice as much as non-professional serum. Glypure™ penetrates the skin efficiently, readjusting water percentages in the epidermis. It is an efficient pH adjuster.

- Fights the signs of aging
- Stimulates skin elasticity
- Improves the look and feel of skin
- Promotes exfoliation
- Improves skin texture
- Reduces the appearance of fine lines and wrinkles
- Helps even out skin tone
- Improves the appearance of sun-damaged skin

Phase	Trade Name	Wt%	INCI Name	Supplier
A1	Purified Water	35.00	Purified Water	
A2	Dissolvine® NA2 S	0.10	Disodium EDTA	AkzoNobel
A3	Ucare™ Polymer JR-30M	1.00	Polyquaternium-10	Dow
A4	Glycerin USP	3.00	Glycerin	Vantage Specialty Ingredients, Spectrum
A5	Zemea® Propanediol	8.00	Propanediol	DuPont Tate & Lyle Bio Products
B1	Purified Water	35.00	Purified Water	
B2	Glypure™	8.00	Glycolic Acid (70%) ¹	Chemours
B3	Trolamine 99	1.00	Triethanolamine 99% NF ^{2,3} to pH 3.5–4.0 ³	Dow, Vantage Specialty Ingredients
C1	Alkest® TW 80	3.20	Polysorbate 80	Oxigeno
C2	Vitamin A Palmitate USP	0.05	Retinyl Palmitate	Spectrum
C3	Vitamin E Acetate	0.25	Tocopheryl Acetate	Spectrum
C4	BV-QSC™	0.05	Tetrahexyldecyl Ascorbate	Barnet
C5	Dragosantol® 100	0.15	Bisabolol	Symrise
C6	Frescolat® ML Natural	0.10	Menthyl Lactate	Symrise
D1	Elestab® FL-15	2.50	Butylene Glycol (and) Glycerin (and) Chlorphenesin (and) Methylparaben	Lab. Serobiologiques/ BASF
E1	Neo Actipone® Green Tea Concentrate 623504	0.10	Camellia Sinensis Leaf Extract	Symrise
E2	To Shade Desired	0.00	Dye	
E3	As Desired	0.00	Botanical Extracts ⁴	
	As Desired w/Acidic Top Notes	0.00	Fragrance	
Adjust	Adjust final pH to 3.8–4.2 with Triethanolamine or Glypure™, as necessary.			
qs	Purified Water	qs to 100%	Purified Water	

Notes:

¹Glypure™ (99%) may be substituted for Glypure™ (70%). Compensate for active Glycolic Acid Content and Purified Water percentage accordingly.

²May use other suitable alkalis, e.g., Potassium Hydroxide, Ammonium Hydroxide, or Sodium Hydroxide.

³Do not exceed 2.5% of Triethanolamine to comply with EU regulations. If necessary, add another neutralizing agent.

Manufacturing Procedure

1. To the main vessel, add A1. Begin mixing.
2. Add A2, and mix until completely soluble and water clear.
3. Slowly add A3 to minimize agglomeration, and heat to 35–50 °C (95–122 °F) until completely clear.
4. Cool to 30–35 °C (86–95 °F), and add A4 and A5.
5. In a separate vessel, add B1-B3 in order and mix until pH is constant. Adjust pH, if necessary with Glypure™ or Triethanolamine. Add to main vessel.
6. In a separate vessel, add C1-C6 in order, and mix until vitamins are completely soluble. Warm gently, if necessary. Add to main vessel.
7. Add D1, E1, and E2-E4, if desired, and mix batch until uniform and clear.
8. Adjust batch to indicated pH and qs to 100% with Purified Water.

Glypure™ has proven benefits in hair, skin, and nail care formulations. To learn more about the benefits of Glypure™, visit www.glypure.com.

For more information, visit glycolicacid.chemours.com or call (800) 441-9593.

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