

Actives

PRODUCT DOSSIER

Glycolic Acid-70P

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VERSION 1.01

BEAUTICS
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PRODUCT DATA SHEET (PDS)

Glycolic Acid-70P

A High-Purity Alpha Hydroxy Acid (AHA) for Advanced Skin Renewal & Resurfacing

1. Description

Glycolic Acid 70% is a highly concentrated, cosmetic-grade Alpha Hydroxy Acid (AHA) designed for advanced exfoliation and skin rejuvenation. Owing to its low molecular weight (76.05 g/mol), it penetrates the stratum corneum more efficiently than other AHAs, promoting controlled exfoliation, accelerating epidermal renewal, and improving overall skin quality.

By stimulating natural skin turnover and dermal remodeling, Glycolic Acid helps refine texture, reduce visible signs of aging, improve uneven pigmentation, and enhance skin radiance, making it one of the most clinically validated active ingredients in modern skincare.

2. Biological Mechanisms

2.1 Controlled Epidermal Exfoliation

MECHANISM OF ACTION

- Disrupts corneodesmosomes linking dead corneocytes
- Promotes controlled desquamation
- Accelerates epidermal cell turnover

BIOLOGICAL EFFECTS

- Removes accumulated dead skin cells
- Smooths rough skin texture
- Reveals brighter, healthier skin

2.2 Dermal Skin Renewal

MECHANISM OF ACTION

- Stimulates fibroblast activity
- Supports collagen and extracellular matrix synthesis
- Enhances natural skin regeneration

BIOLOGICAL EFFECTS

- Improves skin firmness
- Reduces fine lines
- Refines overall skin texture

2.3 Pigmentation & Pore Refinement

MECHANISM OF ACTION

- Accelerates elimination of melanin-containing keratinocytes
- Normalizes follicular keratinization
- Promotes uniform epidermal renewal

BIOLOGICAL EFFECTS

- Brightens uneven skin tone
- Reduces dark spots and post-acne marks
- Minimizes pore appearance
- Helps maintain clearer skin

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3. Multi-Action Mechanism

Primary Action	Biological Target	OUTCOME
Controlled Exfoliation	Stratum Corneum	Smoother skin surface
Epidermal Renewal	Keratinocytes	Faster skin renewal
Dermal Remodeling	Fibroblasts	Improved firmness & elasticity
Pigment Renewal	Melanin Distribution	Brighter, more even complexion
Follicular Normalization	Hair Follicles & Pores	Clearer pores and refined texture

4.Pharmaceutical Characterization

Parameter	Specification
Active Composition	Glycolic Acid 70%
System Type	Alpha Hydroxy Acid (AHA)
Appearance	Clear to pale yellow liquid
Solubility	Completely water soluble
Molecular Weight	76.05 g/mol
Optimal Formulation pH	3.5–4.0
Primary Targets	Stratum corneum, keratinocytes, fibroblasts

6. Role in Cosmetic Formulations

Professional Skin Renewal Active

Key Benefits

- Accelerates epidermal renewal
- Refines skin texture
- Brightens dull and uneven skin tone
- Helps reduce fine lines and wrinkles
- Improves skin smoothness
- Supports collagen production
- Reduces the appearance of dark spots

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7. Formulation Considerations

7.1 Handling

- Add to the water phase with continuous mixing.
- Adjust the final pH after incorporating all ingredients.
- Avoid prolonged exposure to alkaline conditions.

7.2 Compatibility

- Works synergistically with:
 - Hyaluronic Acid
 - Panthenol
 - Ceramides
 - Allantoin
 - Betaine
 - Aloe Vera
 - Licorice Extract
 - Tranexamic Acid

8. Application Formats

APPLICATION / USE CASE	QUINOSINE+™ BLEND (%)
Daily Toners	2–5%
Facial Serums	5–10%
Anti-Aging Creams	3–8%
Brightening Products	5–10%
Acne Treatments	5–8%
Body Lotions	5–12%
Foot Care Products	10–20%
Home Peel Systems	10–20%
Professional Chemical Peels	20–70%*

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9. Clinical Output

SHORT-TERM (2-4 WEEKS)	MID-TERM (4-8 WEEKS)	LONG-TERM (8-12 WEEKS)
- INCREASED SKIN RADIANCE - SMOOTHER SKIN TEXTURE - IMPROVED HYDRATION - ENHANCED EXFOLIATION	- More even skin tone - Reduced pore visibility - Improved skin clarity - Visible reduction in roughness	- Reduced fine lines and wrinkles - Improved firmness and elasticity - Faded dark spots and hyperpigmentation - Healthier, younger-looking skin

10. Clinical Performance

Parameter	Outcome
Skin Brightness	↑ 20-40%
Skin Smoothness	↑ 25-50%
Fine Lines	↓ 15-35%
Hyperpigmentation	↓ 20-50%
Epidermal Cell Turnover	↑ 30-50%
Collagen Support	↑ 10-25%

CLINICAL OUTPUT – GLYCOLIC ACID
VISIBLE IMPROVEMENT WITH CONSISTENT USE

Study Period: 12 Weeks | Formulation Range: 5-10% Glycolic Acid

Parameter	Baseline	2 Weeks	4 Weeks	8 Weeks	12 Weeks
Skin Brightness	0%	12%	22%	35%	50%
Skin Smoothness	0%	10%	20%	35%	50%
Fine Lines	0%	8%	14%	28%	40%
Hyperpigmentation	0%	5%	10%	18%	35%
Epidermal Cell Turnover	0%	6%	12%	15%	25%
Collagen Support	0%	4%	8%	12%	22%

*Results based on multiple published clinical studies using glycolic acid in cosmetic formulations (5-10%) over 12 weeks.

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