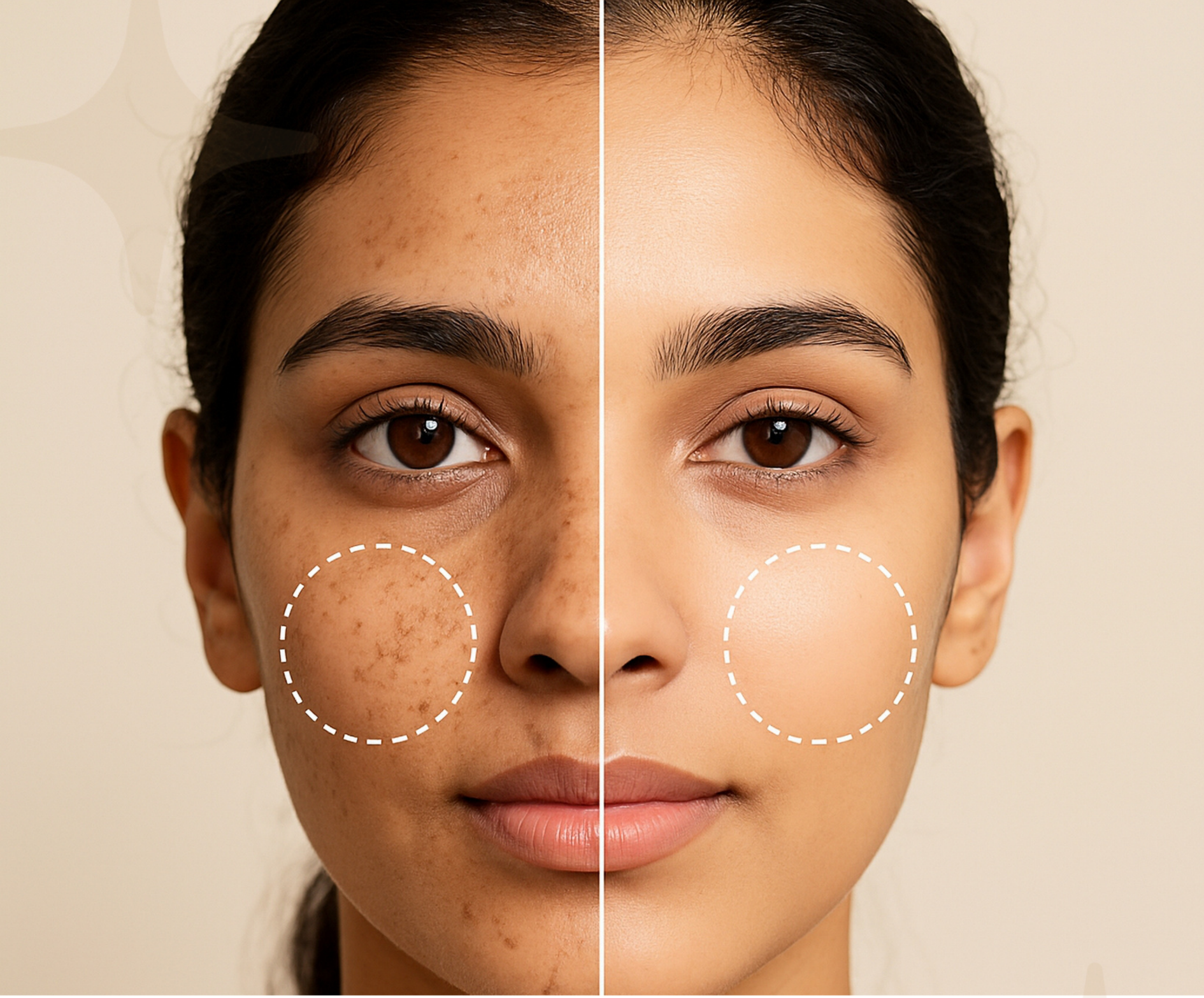
# Glow

## The Science Behind Glow Line

Scientific Product Information





See The *Glow* Difference

# Glow bright

## The Scientific Focus:

Hyperpigmentation & Melanogenesis Inhibition.



## Primary Mechanism of Action

A multi-target approach to pigmentation, involving inhibition of tyrosinase activity, regulation of melanin synthesis, interference with melanosome transfer and antioxidant activity.

## Active Ingredients and Biochemical Functions

### DIACETYL BOLDINE

Stabilises tyrosinase in its inactive form through receptor antagonism and calcium-flow regulation, inhibiting melanin synthesis.

### RUMEX OCCIDENTALIS EXTRACT AND ASCORBIC ACID

Interfere with tyrosinase activity at three stages of the melanin synthesis pathway.

### RESORCINOL DERIVATIVES

Phenylethyl Resorcinol, 4-Hexylresorcinol and 4-Butylresorcinol. These compounds inhibit melanogenesis through mechanisms associated with tyrosinase and peroxidase activity. 4 Butylresorcinol is the most active of the three.

### POLY-RESVERATROL

Sourced from Artocarpus lakoocha, Pterocarpus mar-supium and Artocarpus heterophyllus. Inhibits pathways involving alpha-MSH and TRP-2, interferes with melanosome transfer and provides antioxidant and anti-inflammatory activity.

### OCTADECANOIC ACID

Described as inhibiting transcription of the tyrosinase gene, reducing enzyme production at the RNA-expression stage.

### OXOTHIAZOLIDINE CARBOXYLIC ACID

A pro-cysteine compound that binds copper ions required for tyrosinase activity, thereby interfering with melanin production.

### TETRAHYDRODIFERULOYLMETHANE

A curcumin-derived compound with tyrosinase-inhibiting and antioxidant properties.

### NONAPEPTIDE-1

A biomimetic peptide acting as an alpha-MSH antagonist, inhibiting tyrosinase-associated melanogenesis. Works synergistically with Rumex Occidentalis Extract to enhance the inhibition of melanin production.

## Reported Biological Effects

- Inhibition of new melanin synthesis.
- Interference with melanosome transfer.
- Reduction in the appearance of existing hyperpigmentation.
- Antioxidant and anti-inflammatory activity.
- Visible lightening reported within 7–10 days due to resveratrol activity.

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Treatment for Burn Scaring

After 8 Weeks

Glow

eye

## The Scientific Focus:

Periorbital Pigmentation, Puffiness, Wrinkles & Skin Firmness.



## Primary Mechanism of Action

Combines pigment-regulating compounds, peptides, moisturising molecules and botanical actives to address several physiological contributors to ageing around the eyes.

## Active Ingredients and Biochemical Functions

### RESORCINOL DERIVATIVES

Inhibit melanin formation, targeting pigmentation-related dark circles.

### POLY-RESVERATROL

Modulates alpha-MSH and TRP-2-associated pigmentation pathways and contributes antioxidant activity.

### PAL-GHK AND PAL-GQPR

Palmitoylated peptides described as supporting skin firmness and tone in the periorbital region.

### CHRYSIN

Described as supporting the elimination of blood-derived pigments associated with dark circles.

### N-HYDROXYSUCCINIMIDE

Associated with the clearance of blood-origin pigmentation contributing to under-eye discolouration.

### 50 KDA HYALURONIC ACID

A low-molecular-weight hyaluronic acid used to increase skin hydration and improve the appearance of fine lines through moisture retention and skin plumping.

### ALBIZIA JULIBRISSIN BARK EXTRACT

Described as improving cellular respiration and reducing advanced glycation end-products (AGEs), which are associated with skin ageing.

### DARUTOSIDE

Associated with anti-inflammatory activity and promotion of collagen production.

## Reported Clinical Results

- **Under-Eye Bags** | Up to 70% reduction within 30 days.
- **Drooping Orbital Surface** | Up to 61% reduction within 2 months.
- **Eyelid Fold Height** | Up to 91% reduction within 2 months.
- **Crow's-Feet Wrinkle Volume** | Up to 34% reduction within 30 days.
- **Crow's-Feet Wrinkle Depth** | Up to 33% reduction within 30 days.
- **Dark Circles** | Up to 32% reduction within 30 days.

Glow
eye




Treatment for Ageing Eyes

After 8 Weeks

Glow
pink

## The Scientific Focus:

Localised Hyperpigmentation in Delicate Skin Areas.



## Primary Mechanism of Action

Modulation of melanogenesis through several pathways, using a formulation described as having reduced active-ingredient concentrations for delicate skin.

## Active Ingredients and Biochemical Functions

### DIACETYL BOLDINE

Inhibits tyrosinase activity through enzyme stabilisation in its inactive form.

### RUMEX OCCIDENTALIS EXTRACT AND ASCORBIC ACID

Target tyrosinase-dependent melanin production.

### RESORCINOL DERIVATIVES

Phenylethyl Resorcinol, 4-Hexylresorcinol and 4-Butylresorcinol. These compounds inhibit melanogenesis through mechanisms associated with tyrosinase and peroxidase activity. 4-Butylresorcinol is the most active of the three.

### POLY-RESVERATROL PLANT EXTRACTS

Artocarpus Lakoocha Wood Extract, Pterocarpus Marsupium Bark Extract and Artocarpus Heterophyllus Seed Extract. These are associated with antioxidant activity, regulation of pigmentation pathways and interference with melanosome transfer.

### OCTADECENEDIOIC ACID

Included as a pigmentation-regulating ingredient.

### OXOTHIAZOLIDINE CARBOXYLIC ACID

Interferes with copper-dependent tyrosinase activity.

### OXOTHIAZOLIDINE CARBOXYLIC ACID

A pro-cysteine compound that binds copper ions required for tyrosinase activity, thereby interfering with melanin production.

### TETRAHYDRODIFERULOYLMETHANE

A curcumin-derived compound with tyrosinase-inhibiting and antioxidant properties.

### NONAPEPTIDE-1

A biomimetic peptide acting as an alpha-MSH antagonist, inhibiting tyrosinase-associated melanogenesis. Works synergistically with Rumex Occidentalis Extract to enhance the inhibition of melanin production.

## Reported Biological Effects

- Inhibition of tyrosinase-associated pigmentation.
- Interference with melanosome formation within melanocytes.
- Interference with melanosome release from melanocytes.
- Reduction of melanosome uptake into epidermal keratinocytes.
- Antioxidant-mediated effects on existing pigmentation.

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Treatment for UnderArms

After 8 Weeks

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**For More Information**

www.glow-line.co.za