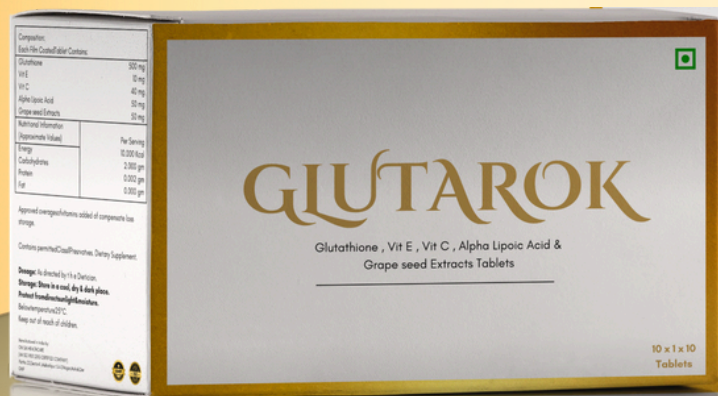


GLUTAROK

GLUTAROK® TABLET

Composition (per tablet):

- *L-Glutathione – 500 mg*
- *Alpha Lipoic Acid – 50 mg*
- *Vitamin C – 40 mg*
- *Vitamin E – 10 mg*
- *Grape Seed Extract – 50 mg*



GLUTAROK® TABLET – USP

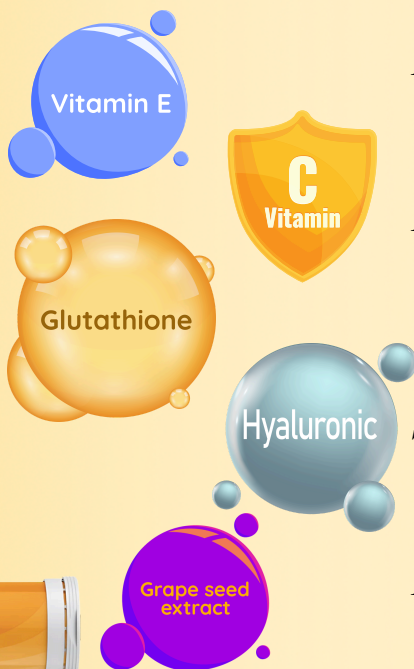
- *500 mg Glutathione with Alpha Lipoic Acid for enhanced antioxidant recycling*
- *Dual vitamin protection (Vit C + Vit E) for collagen & skin barrier support*
- *Grape Seed OPCs to reduce fine lines and improve skin firmness*
- *Ideal for long-term oral antioxidant therapy*
- *USP Line (Short):*
- *“Systemic antioxidant tablet for skin brightening, anti-aging and collagen protection.”*

GLUTAROK® EFFERVESCENT

TABLET

Composition (per tablet):

- *L-Glutathione – 500 mg*
- *Vitamin C – 30 mg*
- *Vitamin E – 5 mg*
- *Hyaluronic Acid – 30 mg*
- *Vaccinium corymbosum (Blueberry) Extract – 10 mg*
- *Grape Seed Extract – 10 mg*



L-Glutathione-based antioxidant formula

- *Helps combat oxidative stress and supports healthy, radiant-looking skin.*

Effervescent delivery system

- *Dissolves quickly in water for easy intake, better palatability, and no swallowing discomfort.*

Skin wellness + hydration combo

- *Taken as a refreshing drink, promoting daily hydration along with nutrition.*

Enhanced absorption perception

- *Effervescent form is often preferred for faster dispersion and better user compliance.*

PRECAUTIONS & SAFETY INFORMATION

- *Recommended dosage only*

Do not exceed the suggested daily intake unless advised by a healthcare professional.

- *Pregnancy & medical conditions*

Pregnant or breastfeeding women, and individuals with chronic illnesses, should consult a doctor before use.

- *Drug interactions*

If you are taking any long-term medication, seek medical advice before starting supplementation.

- *Allergy caution*

Discontinue use if any allergic reaction such as rash, itching, or discomfort occurs.



GLUTAROK

INJECTION

**Glutathione 600mg +
Ascorbic Acid 500 mg**



Advanced Antioxidant Support

- *Contains L-Glutathione, a powerful antioxidant that helps neutralize free radicals and supports cellular well-being.*

Rapid Systemic Delivery

- *Injectable formulation enables quick absorption, making it suitable for situations where faster systemic antioxidant support is desired.*

Skin Wellness & Brightening Support

- *Promoted for enhanced skin radiance, glow, and complexion support when used as directed.*

Premium Quality & Purity

- *Manufactured with pharmaceutical-grade ingredients under strict quality standards to ensure safety and efficacy.*

Ideal for Aesthetic & Wellness Clinics

- *Designed for use in cosmetic, dermatology, and wellness practices seeking to offer antioxidant cocktail therapies.*



MOLECULE-WISE MECHANISM OF ACTION (MOA)

L-GLUTATHIONE (Core Molecule)

Mechanism:

- Inhibits tyrosinase enzyme, reducing melanin synthesis
- Shifts melanin production from eumelanin (dark) to pheomelanin (light)
- Neutralizes reactive oxygen species (ROS)
- Regenerates vitamins C & E

Clinical Outcomes:

- Skin brightening
- Reduction in hyperpigmentation
- Improved skin clarity and tone
- Anti-aging support

VITAMIN C (Ascorbic Acid)

Mechanism:

- Cofactor for collagen synthesis
- Regenerates oxidized glutathione
- Reduces UV-induced oxidative damage

Clinical Outcomes:

- Improved skin elasticity
- Reduced wrinkles and fine lines
- Enhanced glow

VITAMIN E (Tocopherol)

Mechanism:

- Lipid-soluble antioxidant
- Protects cell membranes from oxidative stress
- Synergistic with vitamin C

Clinical Outcomes:

- Smooth skin texture
- Reduced photo-aging
- Skin barrier protection



ALPHA LIPOIC ACID (Tablet)

Mechanism:

- Universal antioxidant (water & fat soluble)
- Regenerates glutathione, vitamin C & E
- Improves microcirculation

Clinical Outcomes:

- Reduced dullness
- Anti-wrinkle effect
- Enhanced skin metabolism

GRAPE SEED EXTRACT (OPCs)

Mechanism:

- Potent polyphenolic antioxidants
- Inhibits collagen degradation
- Improves capillary strength

Clinical Outcomes:

- Reduced fine lines
- Improved skin firmness
- Protection from environmental damage

HYALURONIC ACID (Effervescent)

Mechanism:

- High water-binding capacity
- Maintains dermal hydration
- Supports extracellular matrix

Clinical Outcomes:

- Boosted skin hydration
- Plump and youthful appearance
- Reduced dryness-related dullness

BLUEBERRY EXTRACT

(Vaccinium corymbosum) Mechanism:

- Rich in anthocyanins
- Protects against oxidative and UV damage
- Anti-inflammatory action

Clinical Outcomes:

- Even skin tone
- Protection against photo-aging
- Enhanced skin radiance



. PHARMACOKINETIC ADVANTAGE BY DOSAGE FORM - Tablet (Sustained antioxidant support)

- Dosage Form - Effervescent
- Key Advantage - Faster absorption, superior bioavailability, gentle on stomach
- Injection
- Rapid onset, high plasma levels, clinical dermatology use

4. CLINICAL INDICATIONS

- Skin dullness & uneven tone
- Hyperpigmentation & melasma (adjunct)
- Photo-aging
- Fine lines & wrinkles
- Oxidative stress-induced skin damage
- Pre & post aesthetic procedures

5. KEY DIFFERENTIATING POINTS (HCP FOCUS)

- High-dose pharmaceutical-grade glutathione
- Synergistic antioxidant combination
- Multiple dosage forms for personalized therapy
- Enhanced absorption (effervescent & injectable)
- Supports skin brightening + anti-aging + hydration



Glutathione & Antioxidant Information

PubChem — Glutathione (biochemical role, antioxidant)

<https://pubchem.ncbi.nlm.nih.gov/compound/Glutathione>

Effervescent Tablets & Supplement Context

Pharmaceutical Technology — Effervescent Tablets: Advances & Formulation

(Overview of effervescent tablet technology)

<https://www.pharmtech.com/view/advances-effervescent-tablets-technology-and-formulation>

FDA Dietary Supplement Overview

(Defines supplements and regulatory context vs. drugs)

<https://www.fda.gov/food/dietary-supplements>

Injectable Glutathione & Antioxidant Therapy

NCBI (PMC) — Role of Glutathione in Clinical Practice

(Antioxidant therapies) — injectable context

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4684116/>

World Health Organization — Injection Safety Guidelines

(Safe injectable administration, precautions)

<https://www.who.int/publications/i/item/9241590845>

NCBI (PMC) — Drug Administration Reactions

(Adverse reactions and safety considerations for injections)

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3586780/>

Storage & Safety Regulatory Guidance

WHO — Good Storage Practices for Pharmaceuticals

<https://www.who.int/publications/i/item/9789241510741>

FDA — Drug Safety Communications & Pregnancy Guidance

<https://www.fda.gov/drugs/drug-safety-and-availability/fda-drug-safety-communications>