

Actives

PRODUCT DOSSIER

GLUTASOME® -20P

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VERSION 1.01

BEAUTICS
LABORATORIES

PRODUCT DATA SHEET (PDS)**GLUTASOME® -20P**

Advanced Liposomal Glutathione Delivery System for Superior Antioxidant Protection & Skin Radiance

1. Description

is an advanced cosmetic-grade delivery system containing 20% Reduced Glutathione encapsulated within phospholipid liposomes to maximize ingredient stability, protect against oxidation, and improve skin bioavailability. The liposomal carrier enhances the localization of glutathione on the skin while promoting prolonged antioxidant activity and improved formulation performance.

Designed for premium skincare formulations, it helps defend the skin against oxidative stress, supports a brighter and more even-looking complexion, and contributes to a healthier, youthful appearance by preserving cellular integrity against environmental aggressors. Liposomal encapsulation is widely used to improve glutathione stability and delivery compared with non-encapsulated glutathione.

2. Mechanisms Of Action**2.1 Advanced Liposomal Delivery**

Phospholipid liposomes encapsulate reduced glutathione, protecting it from oxidation while improving its stability and interaction with the skin surface for enhanced cosmetic performance

2.2 Cellular Antioxidant Defense

Reduced glutathione neutralizes reactive oxygen species (ROS) generated by UV exposure, pollution, and environmental stress, helping protect cellular components from oxidative damage and supporting healthier-looking skin.

2.3 Brightening & Skin Tone Optimization

Glutathione helps modulate oxidative pathways associated with melanogenesis, contributing to a more luminous complexion and improving the appearance of uneven skin tone and discoloration.

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3. Applications

- Brightening serums
- Antioxidant facial creams
- Anti-aging treatments
- Daily moisturizers
- Sleeping masks
- Eye care formulations
- After-sun care
- Professional skincare treatments

4. Pharmaceutical Characterization

Parameter	Specification
Active Composition	20 ± 2% Reduced L-Glutathione
Odor	Characteristic
Solubility	Readily dispersible in water
Appearance	Off-white to pale yellow free-flowing powder
PH	5.0-7.0

5. Role in Cosmetic Formulations

Key Benefits

- Enhanced Antioxidant Protection
- Improved Skin Brightness
- Advanced Liposomal Delivery
- Enhanced Stability
- Anti-Aging Support
- Skin Tone Optimization
- Barrier Protection

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Features

- 20% Active Reduced Glutathione
- Liposomal Encapsulation Technology
- Superior Antioxidant Protection
- Enhanced Stability & Bioavailability
- Skin Brightening Support
- Anti-Pollution Defense
- Premium Cosmetic Delivery System

6. Formulation Considerations

6.1 Handling

- Handle in a cool, dry, and well-ventilated area away from excessive heat and humidity.
- Avoid prolonged exposure to air and moisture to maintain product quality.
- Use appropriate personal protective equipment (PPE), including gloves and eye protection, during handling.

6.2 Compatibility

- Works synergistically with:
 - Niacinamide – Enhances skin radiance and supports a more even-looking complexion.
 - Tranexamic Acid – Complements brightening formulations targeting uneven skin tone.
 - Vitamin C Derivatives (Ascorbyl Glucoside, Sodium Ascorbyl Phosphate, 3-O-Ethyl Ascorbic Acid)
 - Provides comprehensive antioxidant protection and brightening support.
 - Alpha-Arbutin – Supports a more uniform skin tone through complementary brightening mechanisms.

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7. Application Formats

Application	Synergistic Ingredients
Brightening Serum	Niacinamide + Vitamin C Derivatives + Alpha-Arbutin
Anti-Aging Serum	Hyaluronic Acid + Peptides + Tocopherol
Antioxidant Defense Cream	Vitamin E + Ferulic Acid + Coenzyme Q10
Barrier Repair Cream	Ceramides + Panthenol + Peptoin
Pollution Protection Product	Peptoin + Botanical Antioxidants + Polyphenols

8. Clinical Performance

• Improvement in Skin Brightness & Reduction of Skin Pigmentation

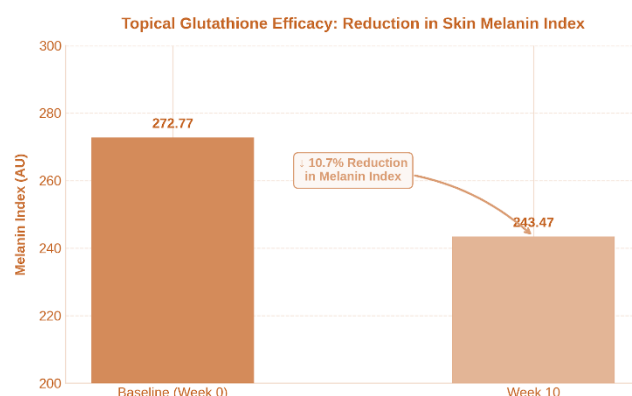
The efficacy of topical glutathione was evaluated in a randomized, double-blind, placebo-controlled clinical study conducted over 10 weeks to assess its effect on skin pigmentation and overall skin appearance.

The study evaluated changes in skin pigmentation using instrumental measurement of the Melanin Index before treatment and after 10 weeks of application.

Results

After 10 weeks of topical glutathione application:

- Melanin Index decreased from 272.77 to 243.47
- ~10.7% reduction in melanin index was observed
- Demonstrated improvement in skin brightness indicators and a more even-looking skin tone.



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