



Active Ingredients for Next-Generation Beauty & Personal Care

LuvLico™

Dipotassium Glycyrrhizate (DPG)

The Soothing Active Formulators Trust

Proven Calm for Sensitive & Acne-Prone Skin

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Dipotassium Glycyrrhizate (DPG)

LuvLico™ Dipotassium Glycyrrhizate is a high-purity, licorice-root-derived bioactive ingredient widely used in hundreds of premium cosmetic and personal care products globally. It is recognized for its **soothing, anti-inflammatory, and skin-brightening** properties, with clinical support for sensitive skin, acne-prone skin, and post-procedure recovery.

Technical Specifications

INCI Name	Dipotassium Glycyrrhizate
CAS No.	68797-35-3
Origin	Licorice Root (<i>Glycyrrhiza</i> spp.)
Appearance	White to light yellow powder
Solubility	Water-soluble / Polyol-soluble
Package Size	1kg, 10kg, 25kg
Recommended Dosage	0.1% – 1.0%



Backed by China's regulated export quota system — just **5.2M kg** authorized annually across all licorice and licorice-derived products (among which glycyrrhizinate salts account for only **440,000 kg**), with access limited to ~20 specialized suppliers — LuvLico™ Dipotassium Glycyrrhizate is a rare, clinically proven anti-inflammatory active for sensitive and acne-prone skin.



Key Benefits

- 1

Anti-Inflammatory & Soothing
Inhibits key inflammatory mediators (TNF-α, COX-2, IL-8) to calm redness and reduce skin irritation.
- 2

Barrier Repair & Skin Tolerance
Strengthens the epidermal barrier, enhances skin tolerance, and supports recovery of compromised skin.
- 3

Acne & Blemish Control
Relieves inflammation associated with acne-prone skin, visibly reducing redness and blemishes.
- 4

Brightening & Even Skin Tone
Helps inhibit melanin production for a more luminous, even complexion.

Suggested Usage
Recommended dosage: 0.1% – 1.0%. Add to the water phase; suitable for both hot and cold processes. Compatible with most cosmetic actives; avoid strong oxidizing agents. Stable across pH 4.0 – 7.5.

Formulation Applications

LuvLico™ Dipotassium Glycyrrhizinate is compatible with a wide range of leave-on and rinse-off formats, trusted by formulators across:



Sensitive Skin Care → Soothing serums, calming moisturizers, and barrier-repair masks.

Acne & Blemish Care → Toners, cleansers, spot treatments, and oil-control lotions.

Post-Procedure Recovery → After-laser and post-peel sprays, recovery creams, and calming concentrates.

Sun & After-Sun Care → Sunscreens, after-sun gels, and sunscreen sprays.

Brightening & Even-Toning → Brightening essences, serums, and tone-correcting creams.

Hair & Scalp Care → Shampoos, conditioners, and scalp-soothing treatments.

SAFETY & COMPLIANCE

“ > The Cosmetic Ingredient Review (CIR) Expert Panel has evaluated Dipotassium Glycyrrhizinate and concluded it is safe for use in cosmetic and personal care products at concentrations up to 1%. It is non-irritating, non-sensitizing, and non-phototoxic.

Cosmetic Ingredient Review Expert Panel. (2007). Safety assessment of Dipotassium Glycyrrhizate and related compounds. *Int J Toxicol*, 26(S2), 79–112.

”



Scientific Sources

The Science Behind LuvLico™

Dipotassium Glycyrrhizinate (DPG) is one of the most clinically studied soothing actives in cosmetic formulation. Key evidence includes:

> **Anti-Aging & Skin Renewal**

Clinical trial demonstrated DPG's role in supporting hyaluronic acid levels and overall skin quality in a multi-modal facial serum.

J Drugs Dermatol. 2017;16(9):884–890

> **Brightening & Anti-Spot**

Randomized controlled trial confirmed visible reduction in melasma and improved skin tone uniformity with DPG-containing serum.

J Cosmet Dermatol. 2022;21(4):1523–1532

> **Post-Procedure Soothing**

Split-face randomized controlled trial showed DPG facial mask significantly accelerated soothing and repair following photorejuvenation treatment.

J Cosmet Dermatol. 2025;24(9):e70452

> **Hydration & Barrier Repair**

In a randomized controlled trial, DPG-containing formulations significantly improved skin hydration and barrier function in sensitive and dry skin types.

J Cosmet Dermatol. 2026;25(5):e70898

> **Wound Healing & Skin Repair**

Preclinical study demonstrated DPG hydrogel's mechanism in promoting full-thickness skin wound repair and tissue regeneration.

Acta Biomater. 2022;143:203–215

More licorice-derived actives from Luvrise:

Glabridin (brightening) | Glycyrrhetic Acid (oil-soluble soothing) | Licochalcone A (irritation-free soothing)

Inquire for technical datasheets.



Luvrise International INC

www.luvrise.com
solutions@luvrise.com
+86 185 6568 5923
Chongqing, China



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