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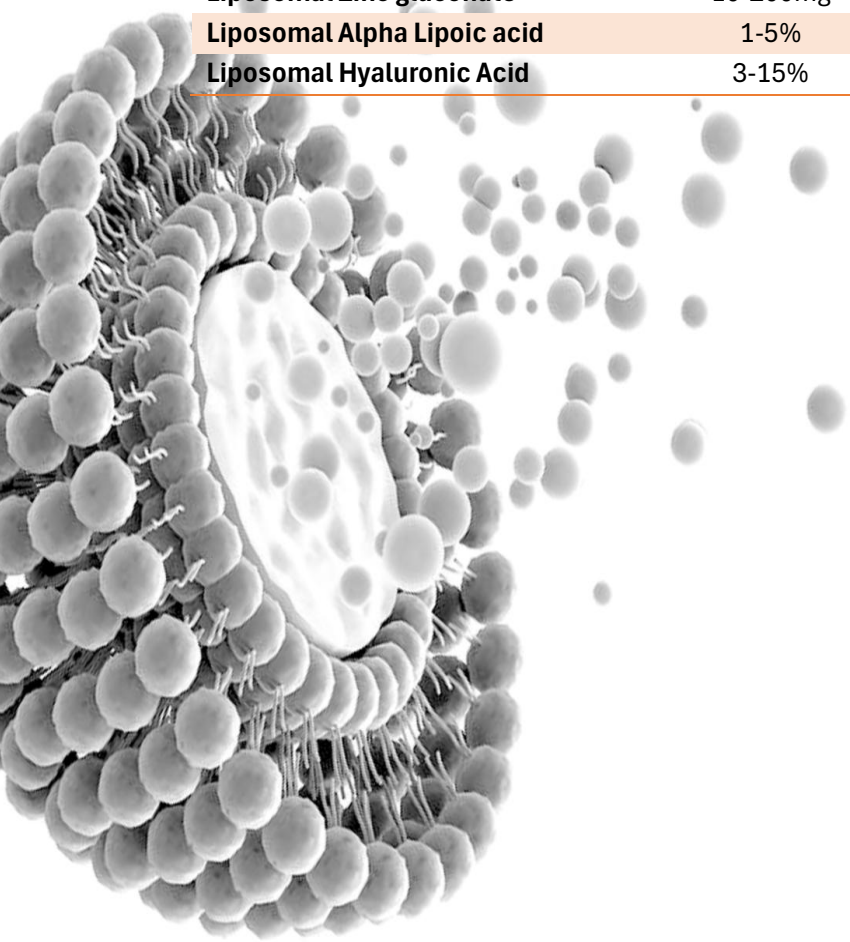
Cosmeceutical Liposomal API

Product Name	Specification	Step
Liposomal Vitamin C	1-20%	Finished
Liposomal Niacinamide	3-10%	Size Test
Liposomal Retinol	10-100mg/ml	Size Test
Liposomal Caffein	0.5-5%	Size Test
Liposomal Cysteamine	0.5-5%	Size Test
Liposomal EGCG	1-50mg	Finished
Liposomal Collagen	0.5-5%	Stability
Liposomal Aloe vera	0.2-5%	Size Test
Liposomal Bromelain	0.1-5%	Size Test
Liposomal Vitamin D	1000-5000 IU	Finished
Liposomal Vitamin E	1-100µg	Finished
Liposomal Zinc gluconate	10-200mg	Finished
Liposomal Alpha Lipoic acid	1-5%	Finished
Liposomal Hyaluronic Acid	3-15%	Size Test



Benefits of Liposomal Delivery in Skincare

Enhanced Penetration

Liposomes help active ingredients penetrate deeper into the skin layers.

Longer-lasting Effects

Sustained release of actives leads to prolonged antioxidant and anti-aging benefits.

Improved Stability

Liposomal encapsulation protects sensitive ingredients from oxadiation and degradation.

Reduced Irritation

Encapsulation minimizes direct contact of strong actives with the upper skin layer.

Gentle on Skin

Liposomal formulas are well tolerated and suitable for sensitive and reactive skin.

Higher Bioavailability

More of the active ingredient reaches the target skin cells where it is needed.

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Liposomal vitamin C

formulated via microfluidic techniques offers a powerful dual benefit platform across nutraceutical and cosmeceutical products, combining enhanced bioavailability with targeted delivery to skin and systemic tissues.

In cosmeceuticals, the same microfluidic process yields uniform, nano-sized liposomes that penetrate the stratum corneum and deliver vitamin C directly into viable epidermal and dermal layers, where it acts as a potent antioxidant, stimulates collagen synthesis, and reduces oxidative stress markers, leading to brighter, firmer, and more even-toned skin with diminished fine lines and hyperpigmentation. The precision of microfluidic assembly further ensures reproducible particle size and encapsulation efficiency, allowing manufacturers to design stable, high-performance liposomal vitamin C products that simultaneously address both internal health and external beauty needs in a single, advanced delivery system.

Benefits of Liposomal Vitamin C for Skin

Powerful Antioxidant

Liposomal vitamin C neutralizes free radicals and protects the skin from oxidative stress.

Gentle and Well-Tolerated

Liposomal delivery reduces irritation and is suitable for sensitive and reactive skin.

Skin Brightening

Helps reduce hyperpigenintation and promotes a more even, radiant skin tone.

Longer-Lasting Effects

Sustained release reduces irritation and is suitable for sensitive and *reactive*

Collagen Support

Stimulates collagen synthesis for firmer, smoother, and more youthful-looking skin.

UV Protection Support

Supports the skin's natural defenses and helps reduce damage from environmental stressors.

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Liposomal Niacinamide

formulated via microfluidic techniques offers a highly effective delivery platform for modern cosmeceutical products, combining improved stability, deeper penetration, and reduced irritation.

The microfluidics process generates narrowly sized, uniform liposomes that encapsulate niacinamide, protecting it from degradation in the formulation and enhancing its transport through the stratum corneum into the epidermis, where it exerts its key benefits:

- Strengthening the skin barrier,
- Improving natural moisturization,
- Reducing transepidermal water loss.

In cosmeceutical serums and creams, this translates into visibly smoother texture, smaller-appearing pores, diminished redness and sensitivity, and more even skin tone, with studies suggesting that liposomal encapsulation allows lower niacinamide concentrations to achieve comparable or superior effects to higher doses in conventional vehicles while minimizing the risk of irritation. The precision and reproducibility of microfluidic assembly making liposomal niacinamide an ideal ingredient for advanced anti-aging, anti-inflammatory, and barrier-repair cosmeceutical ranges.

Benefits of Liposomal Niacinamide for Skin

1. Pore Refinement

Liposomal niacinamide helps minimize the appearance of enlarged pores and smooths skin texture.

2. Barrier Strengthening

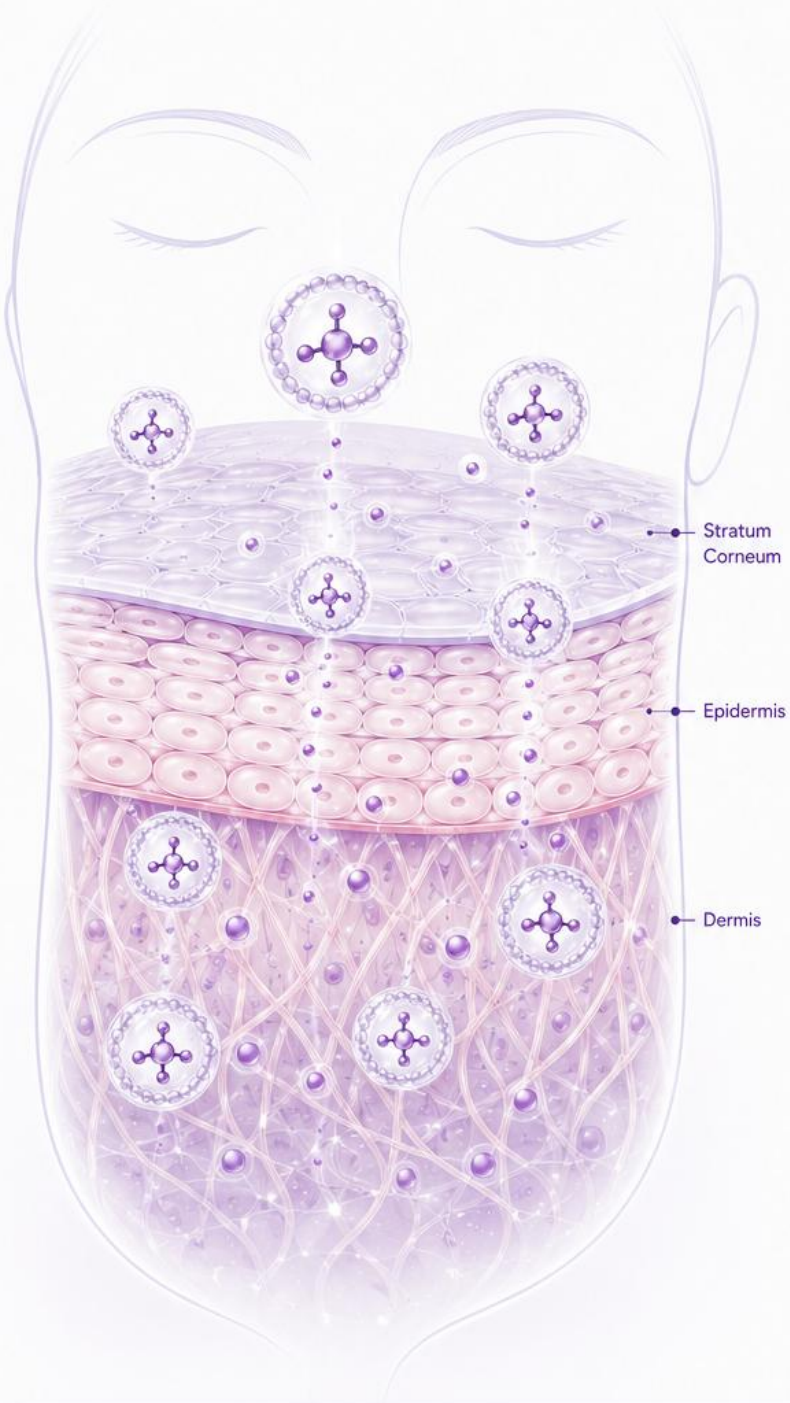
Supports the skin barrier and improves resilience against environmental stressors.

3. Skin Tone Evenness

Helps reduce redness and uneven pigmentation for a more uniform complexion.

4. Improved Moisture Retention

Enhances the skin's natural ability to retain moisture and feel more supple.

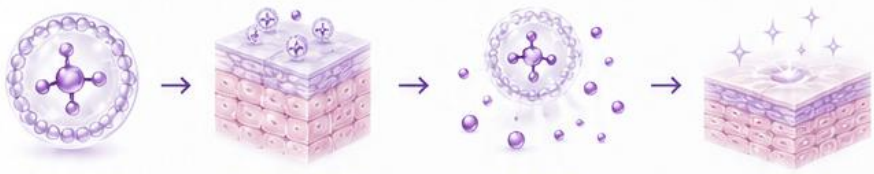


5. Reduced Redness and Sensitivity

Liposomal delivery helps soothe irritated or reactive skin.

6. Long-Lasting Protection

Provides sustained support for a calmer, more balanced skin barrier.



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Liposomal Retinol

produced with microfluidic techniques represents a major advancement in cosmeceutical formulations, offering enhanced delivery, stability, and tolerability compared with conventional retinol preparations. The microfluidics process generates small, uniform liposomes that encapsulate retinol, shielding it from light and oxidation while facilitating controlled release into the epidermis, where it binds to nuclear retinoic acid receptors and upregulates genes involved in collagen synthesis, cell turnover, and extracellular matrix remodeling. In cosmeceutical serums and creams, this translates into improved skin texture, reduced fine lines and wrinkles, more even tone, and visible anti-aging effects, even at lower retinol concentrations, while the liposomal envelope mitigates the typical irritation, redness, and barrier disruption associated with free retinol. The precise size control and reproducibility provided by microfluidic assembly further ensure consistent product performance, prolonged shelf life, and a gentler, more patient-friendly retinol experience, making liposomal retinol an ideal active for high-end anti-aging, photo-repair, and skin-renewal cosmeceutical ranges.

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Liposomal Hyaluronic acid

formulated via microfluidic techniques offers a highly refined delivery system for modern cosmeceutical products, combining deep hydration with improved stability and skin compatibility. The microfluidics process generates small, uniform liposomes that encapsulate hyaluronic acid, enabling it to penetrate beyond the upper stratum corneum and release the active gradually into the viable epidermis, where it binds water and supports the extracellular matrix. In cosmeceutical serums and creams, this translates into intense, long-lasting hydration, a plumper, smoother skin surface, reduced appearance of fine lines, and enhanced barrier function, with less surface stickiness than conventional high-molecular-weight hyaluronic acid formulations. The controlled-size liposomes produced by microfluidics further improve product homogeneity, shelf life, and sensory profile, making liposomal hyaluronic acid an ideal ingredient for advanced moisturizing, anti-aging, and barrier-support cosmeceutical ranges.

Benefits of Liposomal Hyaluronic Acid for Skin

1. Deep Hydration

Liposomal hyaluronic acid delivers intense moisture into multiple skin layers.

2. Volume and Plumpness

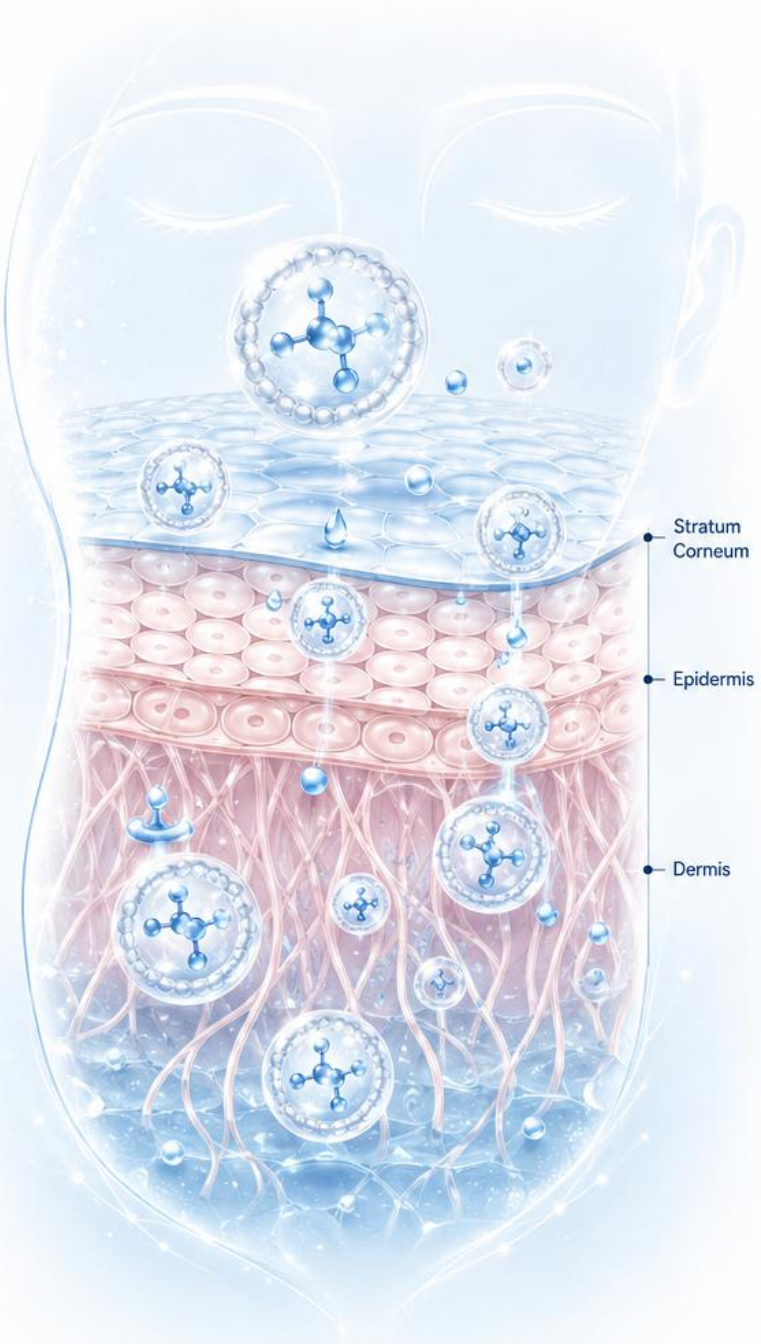
Helps restore skin fullness and reduces the appearance of fine lines.

3. Barrier Support

Strengthens the skin barrier and reduces transepidermal water loss.

4. Gentle on Sensitive Skin

Liposomal delivery is gentle and suitable for reactive and dry skin types.

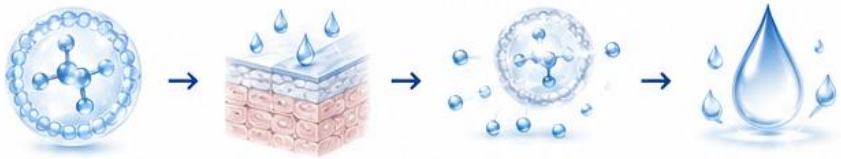


5. Longer-Lasting Hydration

Sustained release of hyaluronic acid provides prolonged moisturizing effects.

6. Improved Skin Texture

Leaves the skin smoother, softer, and more radiant.



LIPOSOME
Protects hyaluronic acid and enhances stability.

PENETRATION
Liposomes penetrate deep into skin layers.

RELEASE
Hyaluronic acid is gradually released.

HYDRATION
Deep, long-lasting hydration and healthier skin.

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Liposomal Alpha-lipoic acid

produced with microfluidic techniques delivers a potent, stable antioxidant system for advanced cosmeceutical formulations, combining superior penetration with reduced irritation. The microfluidic process generates narrowly sized, uniform liposomes that encapsulate alpha-lipoic acid, protecting it from degradation and enabling controlled release into the epidermis, where it acts both as a direct free-radical scavenger and as a regenerator of endogenous antioxidants such as vitamin C, vitamin E, and glutathione. In cosmeceutical serums and creams, this translates into improved skin brightness, more even tone, visible reduction in fine lines and photoaging signs, and enhanced protection against environmental oxidants, often with less stinging or sensitivity than conventional ALA preparations. The precise, reproducible liposomal structure obtained through microfluidics further ensures consistent product performance, better formulation stability, and a smoother sensory feel, making liposomal alpha-lipoic acid a powerful ingredient for anti-aging, antioxidant-boosting, and skin-renewal cosmeceutical ranges.

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Liposomal Caffeine and EGCG

produced with microfluidic techniques offer a synergistic, targeted delivery system for advanced cosmeceutical products, particularly in anti-aging, antioxidant, and body-care applications. The microfluidic process generates small, uniform liposomes that encapsulate both caffeine and EGCG, stabilizing these sensitive actives and enhancing their penetration into the dermis, where caffeine exerts mild vasoconstrictive and lipolytic effects while EGCG acts as a potent antioxidant and matrix-protective polyphenol. In cosmeceutical creams and serums, this combination helps reduce the appearance of puffiness and under-eye bags, supports skin firmness, and mitigates oxidative stress-induced collagen degradation, thereby improving skin tone and texture with minimal irritation. The precise, reproducible liposomal structure afforded by microfluidics also improves product stability and sensorial performance, making liposomal caffeine and EGCG ideal for antioxidant-boosting, depuffing, and protective cosmeceutical formulations.

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