



INNOVATIVE ELEMENTS TO AMELIORATE LIFE



ZLEY®ASCORYTHM

Powered by Niosomal Encapsulation Delivery Technology

High Stability · Enhanced Permeation · Sustained Release



WHO WE ARE

COMMITTED TO AMELIORATE LIVE, WITH TECHNOLOGY

Driven by a vision of innovation and development, we are dedicated to producing high-quality raw materials for the global personal care industry, addressing the growing demand for functional ingredients. Our products are designed to promote skin rejuvenation, brightening, antioxidant, and anti-inflammatory benefits.

「 1 2 3 」

1 factory located in Weinan, Shaanxi Province
2 Innovation research and development centers
3 subsidiaries: [China] Guangzhou [Hongkong]
and [Singapore] Over 200 employees



PATENT CERTIFICATE

- **ZL 2022 1 1022382.9**
Anti-inflammatory and Repairing Composition Containing Ethylene Glycol Salicylate and Its Preparation Method and Application
- **ZL 2022 1 1306298.X**
Supramolecular Vesicle Aggregates of 4-Butylresorcinol and Their Preparation Method and Cosmetic Composition
- **ZL 2022 1 1147913.7**
Microencapsulated Kava Extract and Its Preparation Method and Application
- **ZL 2016 1 0490027.2**
Anti-Aging Cosmetic Composition and Its Preparation Method
- **ZL 2022 1 1648008.X**
Composition Containing Amino Acid Derivatives for Regulating Skin Microbiota
- **ZL 2022 1 1038113.1**
Anti-Acne, Whitening, and Antioxidant Essential Oil Composition Containing Ferulic Acid Derivatives and Its Preparation Method
- **ZL 2022 1 1187356.1**
Composition for Skin Conditioning, Whitening, and Brightening, and Essence Lotion
- **ZL 2015 1 0077009.7**
Preparation Method of High-Purity Piperazine
- **ZL 2023 1 0925891.0**
Composition and Its Use in Improving Skin Barrier Function, and Skincare Product
- **ZL 2022 1 1251631.1**
Liposomes Containing Ferulic Acid and Its Derivatives, Preparation Method, and Application
- **ZL 2015 1 0170034.X**
Method for Synthesizing 2,4-Dihydroxyacetophenone and Recycling Wastewater
- **ZL 2014 1 0245210.7**
Preparation Method of Half-Fumarate Quetiapine
- **ZL 2023 1 1500453.6**
Deodorizing Composition, Its Preparation Method, and Application
- **ZL 2023 1 1366456.5**
Peony Root Bark Extract-Based Perfume with Lemon Fragrance, Preparation Process, and Application
- **ZL 2024 1 0785149.9**
Preparation Method of Highly Active Trigonella Extract and Its Uses in Care Products
- **ZL 2024 1 0726523.8**
Preparation Method of Hydroxypinacolone Retinoate
- **ZL 2024 2 1028204.1 (Utility model patent)**
Ultrasonic Cleaner for Cosmetic Testing
- **ZL 2024 1 0576240.X**
Composition for Reducing Periorbital Skin Issues, Its Preparation Process, and Application
- **MORE PATENT APPLICATIONS ARE PENDING...**

WHAT WE DO

COMMITTED TO AMELIORATE LIVE, WITH TECHNOLOGY

「Herbalism」

The cosmetic industry is actively exploring new neurocosmetic ingredients to enhance the connection between the skin and the nervous system. We harness plant extracts with soothing and anti-inflammatory properties to alleviate skin irritations, reduce redness, and support a healthier complexion.

「Metropolitan」

We are committed to continuously exploring innovative formulations for effective skin rejuvenation. Our team leverages advanced technologies and novel ingredients to push the boundaries and unlock new possibilities in this field.

「Revolution」

We utilize innovative technologies and ingredients to deliver exceptional results in skin brightening. Our ongoing research focuses on addressing pigmentation issues and promoting a radiant complexion.



I&D STRENGTH

「BIRI」

(Biotechnology Innovation Research Institute)

Our team of experienced biologists leads the R&D efforts to identify active skincare ingredients with proven efficacy, high potency, and stability through experimental protocols, strain culture, and fermentation optimization.

Our facility adheres to the national laboratory safety standards GB 19489-2011, including P2 and biochemical laboratory requirements.

「FOSCRC」

(Functionality of Skin Care Research Center)

As society progresses and technology advances, there is a growing demand for effective skin care and a deeper understanding of cosmetics. At our Functional Skincare Research and Development Center, we focus on exploring skincare products through chemical testing and cell assays to study their functions and properties.

「FOSCTEC」

(Functionality of Skin Care Testing&Evaluation Center)

We partner with a professional third-party testing institute specializing in cosmetics, cosmetic raw materials, and pharmaceutical intermediates to ensure rigorous and reliable product testing.



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Part . 01

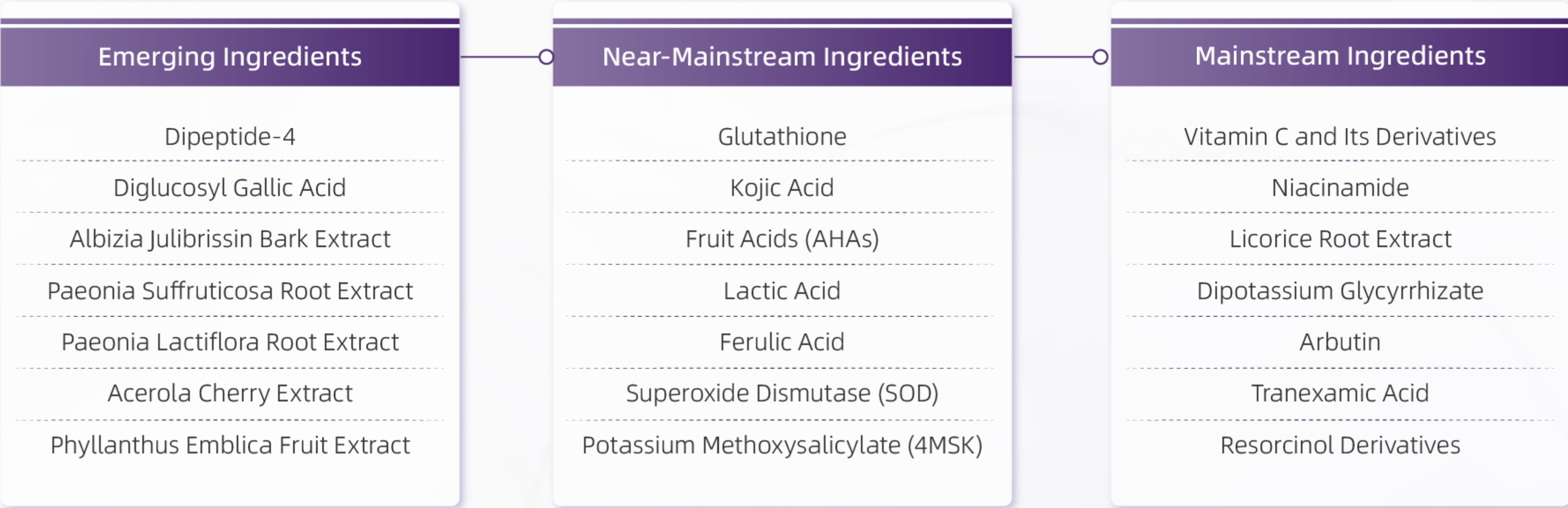
「Market Insights
Opportunities and Challenges of Vitamin C Skincare」



MARKET INSIGHTS

INNOVATIVE ELEMENTS TO AMELIORATE LIFE

According to the Mintel 2025 China Beauty and Personal Care Ingredient Trend Report, **Vitamin C and its derivatives rank among the mainstream ingredients in skin tone management**. They effectively enhance skin radiance and brightness, improve skin texture, and provide antioxidant protection.



「Multiple Benefits of Vitamin C」



01

「Antioxidant & Brightening」

Scavenges excess free radicals and activates the Nrf2 endogenous antioxidant pathway, up-regulating the expression of antioxidant genes such as HO-1, γ -GCLC, and NQO-1 to combat oxidative dullness.

02

「Spot Correcting & Whitening」

Inhibits tyrosinase activity to block melanin production at the source, while reducing existing melanin to diminish dark spots and dullness for a clearer, more radiant complexion.

03

「Anti-Wrinkle & Firming」

Stimulates fibroblast activity and promotes the synthesis of collagen, elastin, and glycosaminoglycans, enhancing skin elasticity and structural support to improve fine lines and sagging while redefining firmer facial contours.

04

「Barrier Repair」

Promotes the production of filaggrin and keratin, while stimulating keratinocyte proliferation to increase epidermal thickness, strengthen the skin barrier, and improve overall skin resilience.

「Challenges in Vitamin C Applications」



01

「Poor Stability」

Vitamin C is chemically active and highly susceptible to light, oxygen, and temperature, which can lead to discoloration and loss of activity, significantly compromising product efficacy throughout shelf life.

02

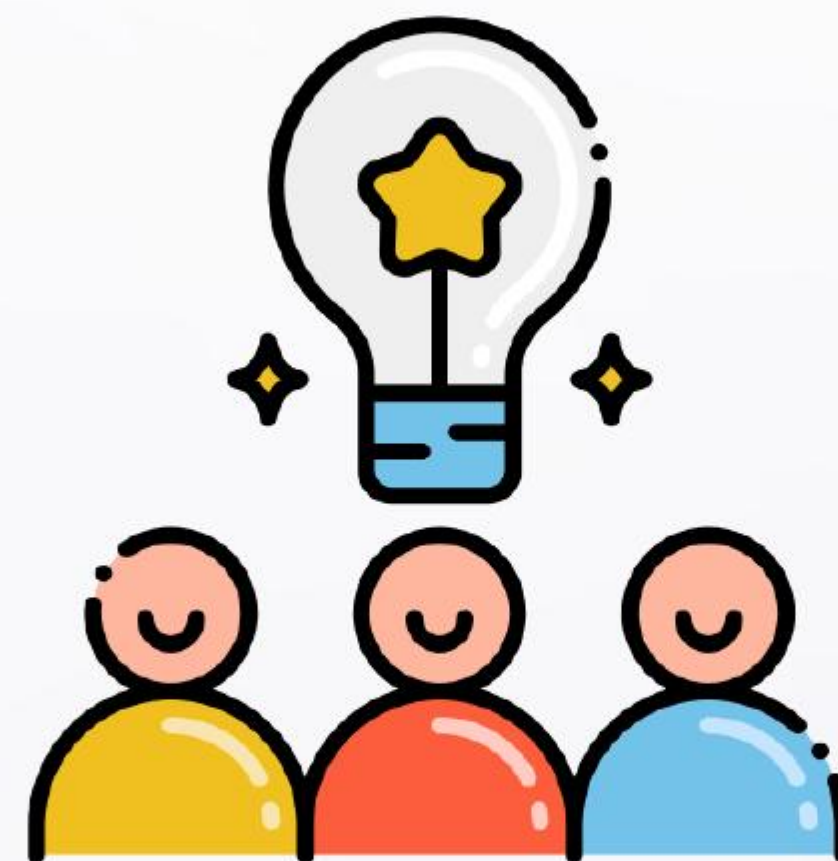
「Limited Penetration」

Vitamin C has difficulty penetrating the stratum corneum barrier, causing most active ingredients to remain on the skin surface and resulting in low bioavailability.

03

「High Irritation Potential」

To maintain stability and activity, Vitamin C formulations typically require a low pH environment, which may disrupt the skin barrier and lead to redness, stinging, peeling, and other signs of skin sensitivity.



How Can **Vitamin C**
Skincare Break
Through Its Limitations?

**Niosomal Encapsulation
Delivery Technology!**

Part . 02

「PART2 Niosomal Encapsulation Delivery Technology」



NIOSOMES PARCEL DELIVERY TECHNOLOGY

INNOVATIVE ELEMENTS TO AMELIORATE LIFE

「What Are Niosomes?」



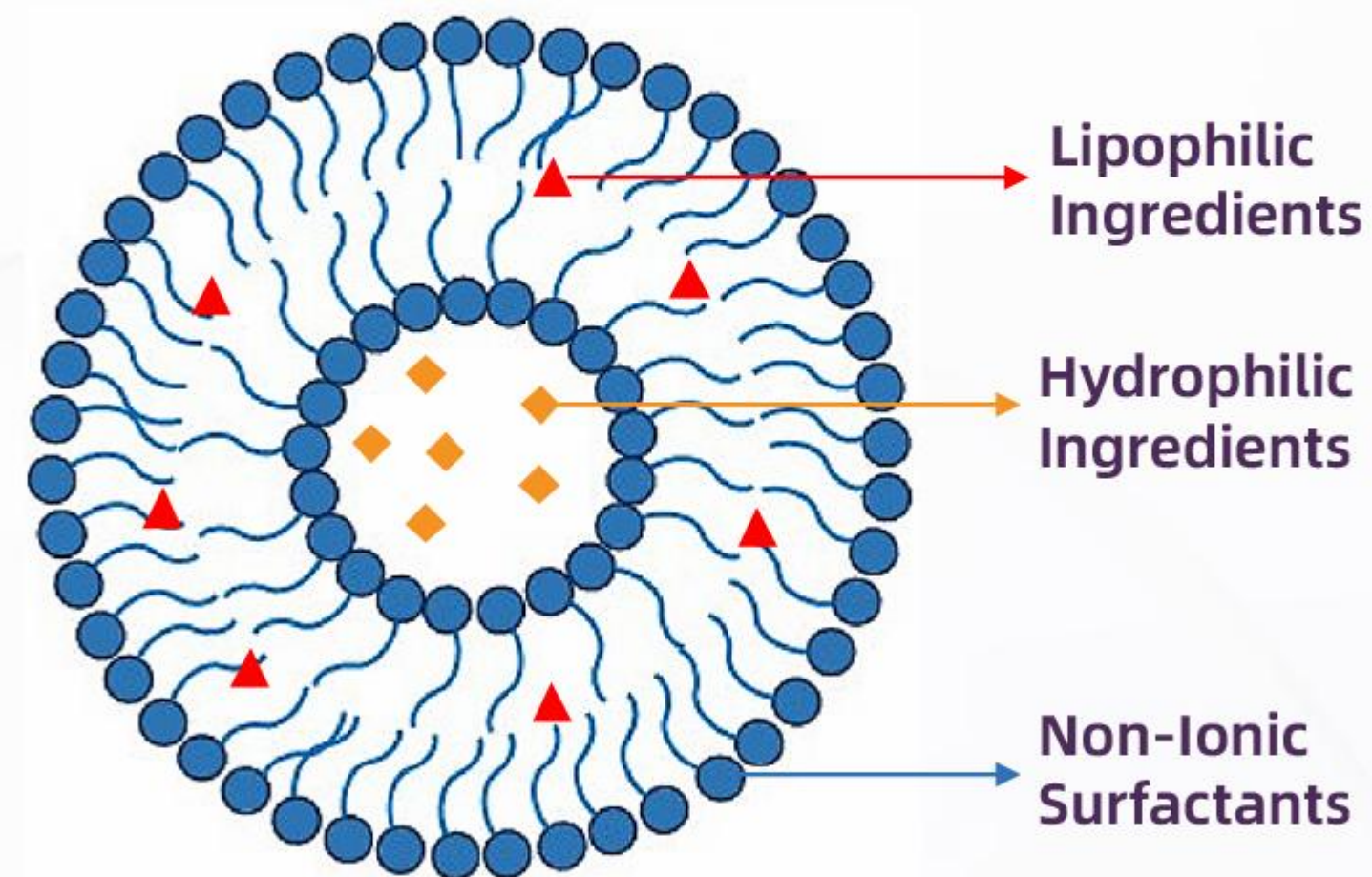
Self-Assembled Bilayer Vesicular Structure

- Niosomes are flexible vesicles formed by the self-assembly of non-ionic surfactants in an aqueous medium, creating a bilayer membrane structure.
- With a hydrophilic core and a hydrophobic bilayer membrane, niosomes can efficiently encapsulate and deliver both hydrophilic and lipophilic active ingredients.

Significant Advantages over Conventional Liposomes

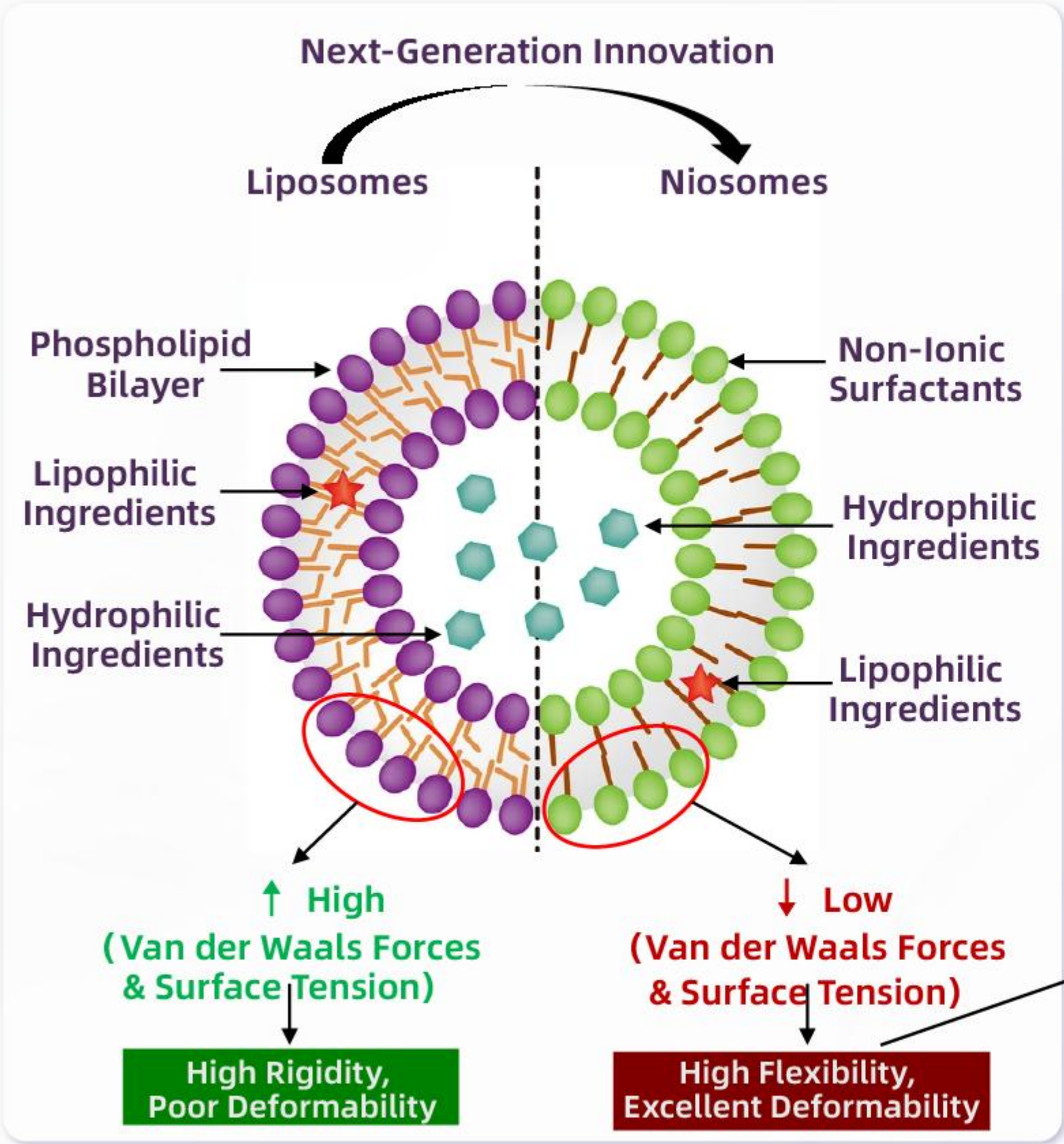
- **Enhanced Stability:** Niosomes exhibit superior membrane flexibility with reduced leakage and improved resistance to oxidation.
- **Improved Penetration:** Their unique deformable structure enables enhanced penetration through the stratum corneum barrier, significantly improving transdermal delivery and bioavailability of active ingredients.

Structural Illustration: Niosomes



[1]柔性囊泡—柔性脂质体透皮研究新进展[J].国外医药(合成药 生化药 制剂分册),2002,(06):363-365.

[2]弹性脂质囊泡在经皮给药系统的研究进展[J].中国现代应用药学,2019,36(04):511-515.



Niosomes VS Liposomes

Comparison Criteria	Niosomes	Liposomes
Membrane Materials	Non-ionic surfactants	Phospholipids, cholesterol
Membrane Properties	High flexibility and deformability	High rigidity and poor deformability
Stability	Excellent (less aggregation and oxidation)	Poor (prone to leakage and oxidation)
Skin Penetration	High (can reach the dermis)	Limited (mostly remains on the skin surface and struggles to penetrate the stratum corneum)

The unique flexible vesicular structure of Niosomes provides excellent deformability, enabling them to pass through skin pores smaller than their own size. This allows efficient penetration of the stratum corneum barrier, significantly enhancing transdermal delivery and bioavailability of active ingredients.

[1]柔性囊泡—柔性脂质体透皮研究新进展[J].国外医药(合成药 生化药 制剂分册),2002,(06):363-365.
[2]弹性脂质囊泡在经皮给药系统的研究进展[J].中国现代应用药学,2019,36(04):511-515.

「Transdermal Penetration Mechanisms of Niosomes」



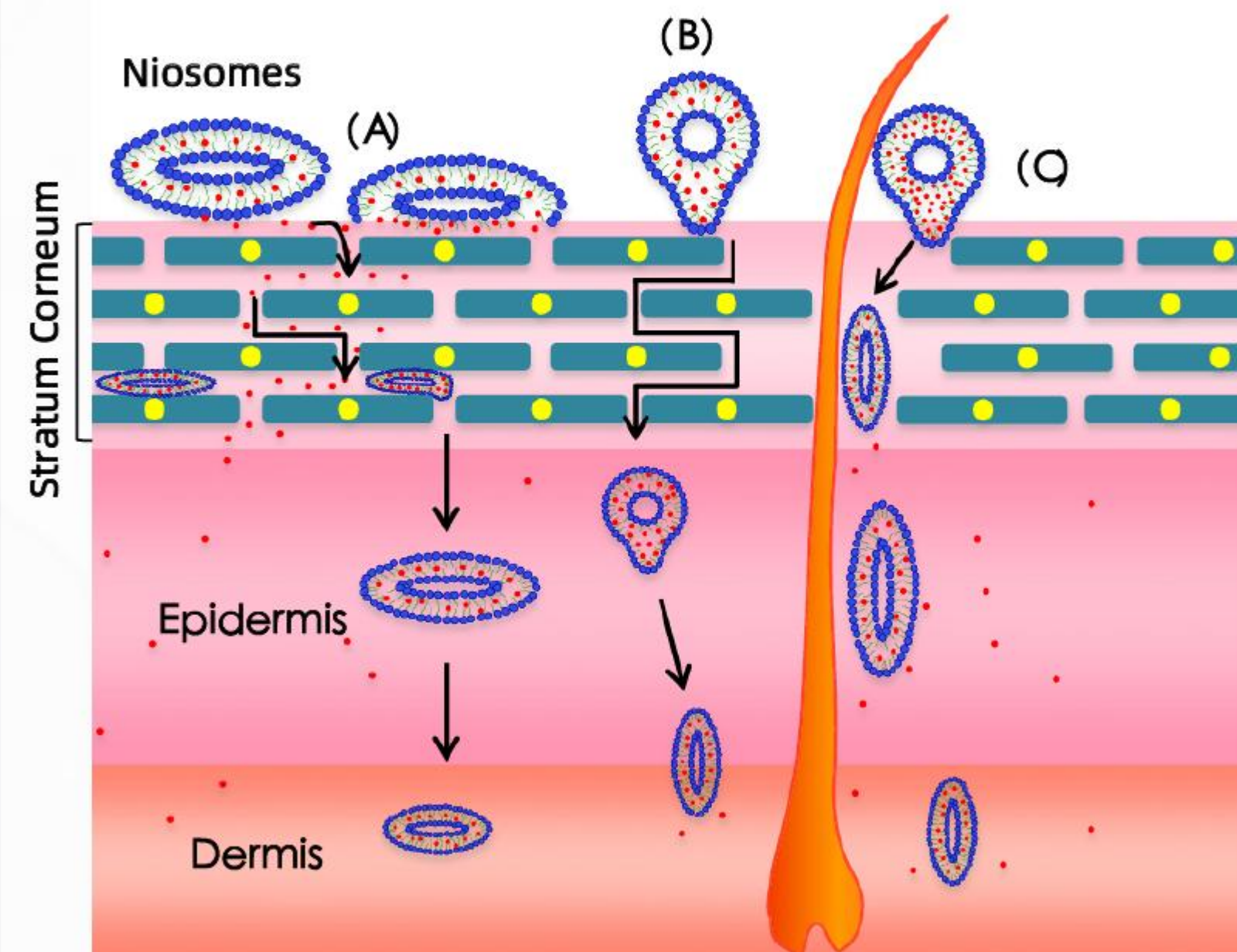
As illustrated on the right, the transdermal delivery mechanisms of Niosomes can be mainly categorized into three pathways [1,2,3]:

(A) Adsorption/Fusion Mechanism: Niosomes closely interact with, adsorb onto, and fuse with the stratum corneum. The non-ionic surfactants within the vesicles disrupt the lipid arrangement of the stratum corneum and enhance lipid fluidity, thereby promoting skin penetration.

(B) Deformable Penetration Mechanism: Niosomes possess excellent deformability, enabling them to pass through skin pores smaller than their own size, effectively overcoming the stratum corneum barrier and reaching deeper skin layers.

(C) Skin Appendage Pathway: Skin appendages, including sweat glands, hair follicles, and sebaceous glands, are widely distributed throughout the skin and open onto the skin surface. Therefore, Niosomes can also deliver active ingredients into deeper skin layers through these appendage pathways.

Figure: Transdermal Penetration Mechanisms of Niosomes^[3]



[1]类脂囊泡及其体内外释放研究进展[J].海峡药学,2013,25(09):36-39.

[2]弹性脂质囊泡在经皮给药系统的研究进展[J].中国现代应用药学,2019,36(04):511-515.

[3]Niosomes from 80s to present: the state of the art. Adv Colloid Interface Sci. 2014 Mar;205:187-206.

「Product Development Philosophy」



Designed to address the three major limitations of single high-concentration Vitamin C formulations – poor stability, limited penetration, and high irritation potential – and to maximize the skincare benefits of Vitamin C, the ZLEYGROUP R&D team has innovatively developed the “ZLEY®ASCORYTHM”

ZLEY®ASCORYTHM, Powered by advanced Niosomal Encapsulation Delivery Technology, ZLEY®ASCORYTHM combines three optimally balanced Vitamin C active ingredients to achieve a sophisticated balance of stability, penetration, and long-lasting efficacy, delivering visible radiance and sustained skin repair from within.

Part . 03

「PRODUCT INTRODUCTION」

PRODUCT INTRODUCTION

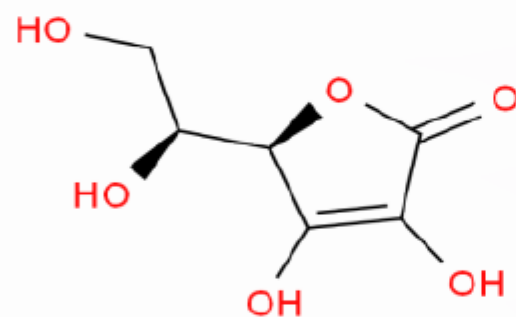
INNOVATIVE ELEMENTS TO AMELIORATE LIFE

「1 + 1 + 1 > 3: A Synergistic Triple-Vitamin C Brightening Matrix」



「Ascorbic Acid」

The Active Powerhouse ·
Instant Antioxidant Protection

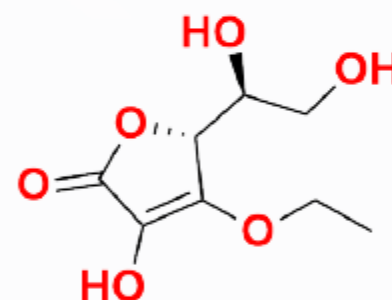


The most biologically active form of Vitamin C, delivering potent antioxidant activity directly.

Effectively promotes collagen synthesis and enhances skin elasticity.

「3-O-Ethyl Ascorbic Acid」

The Penetration Enhancer ·
Brightening Powerhouse

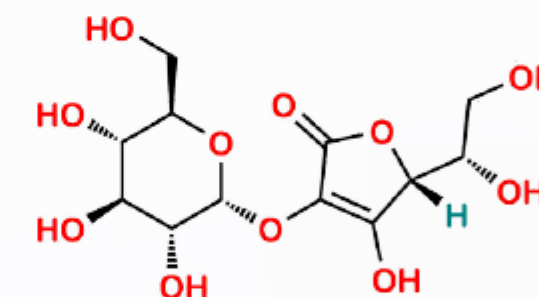


Its amphiphilic structure improves stability and enhances transdermal absorption.

Helps inhibit tyrosinase activity while promoting melanin autophagy and degradation.

「Ascorbyl Glucoside」

The Gentle Performer ·
Sustained-Release Brightening



Gradually releases Vitamin C through enzymatic conversion in the skin for gentle, low-irritation efficacy.

Provides long-lasting antioxidant protection and brightening benefits throughout the day.

「Synergistic Enhancement with the Botanical Antioxidant Magnolol」



🌿 Natural Plant Polyphenol

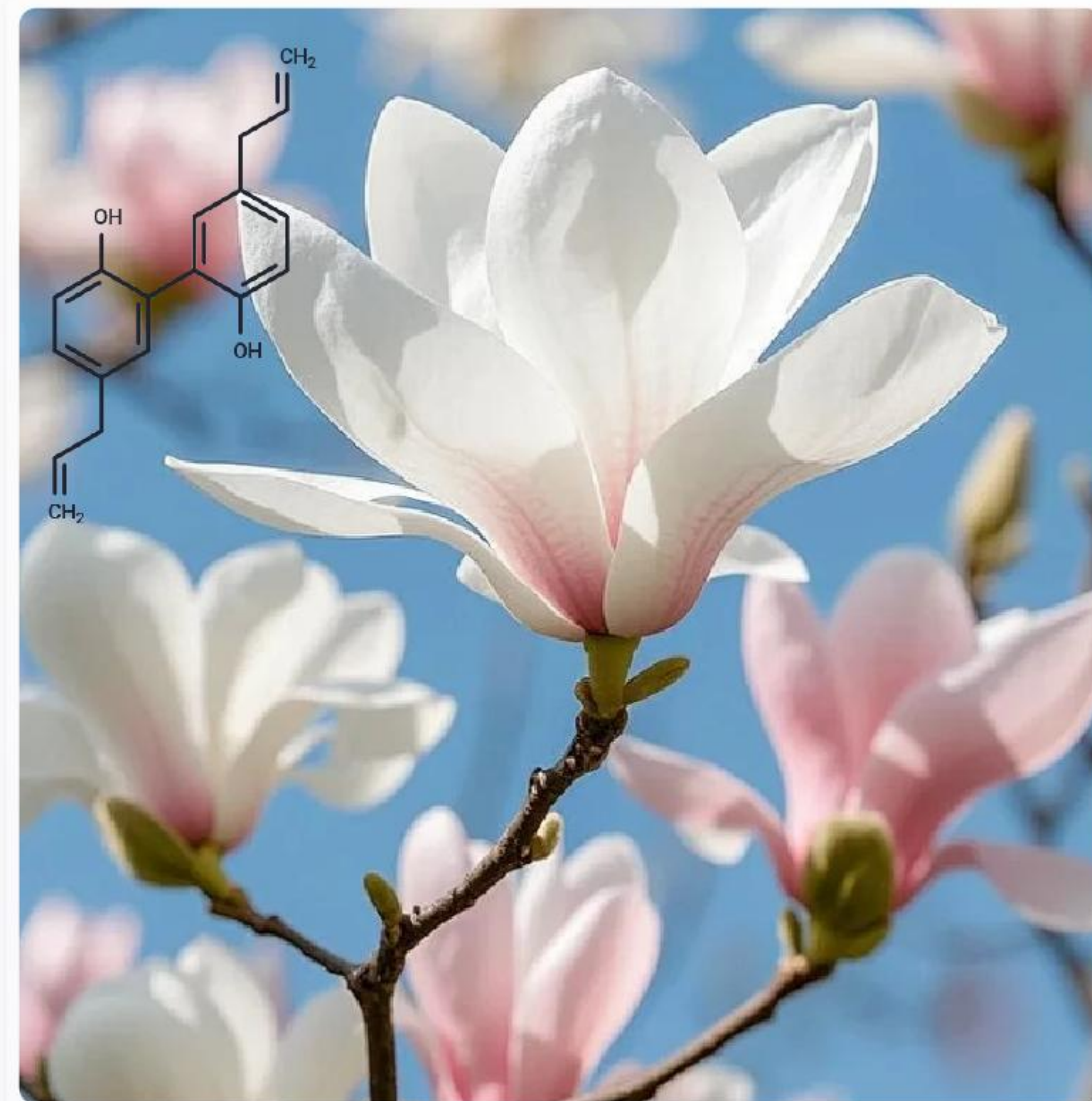
- Derived from the traditional medicinal plant *Magnolia officinalis*, Magnolol is a highly active natural polyphenol that offers both safety and efficacy.

🛡️ Powerful Antioxidant Network

- With exceptional free radical scavenging ability, Magnolol significantly strengthens the overall antioxidant defense system of both the formulation and the skin, helping protect against environmental stressors.

🔄 Soothing, Anti-Inflammatory & Synergistic Effects

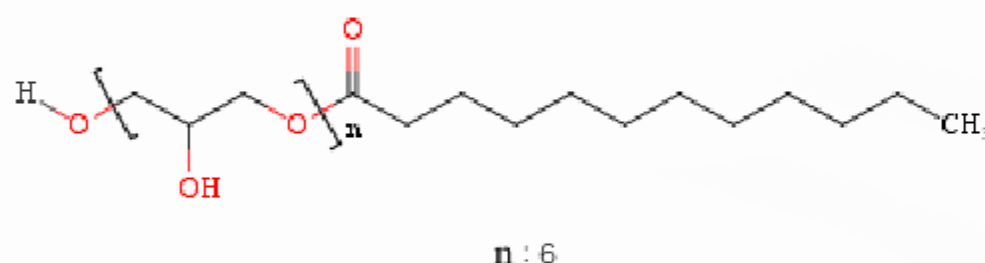
- Effectively helps relieve skin sensitivity and pigmentation concerns. In synergy with the ZLEY®ASCORYTHM, it comprehensively enhances antioxidant, brightening, tone-evening, and anti-aging performance.



「The Fundamental Building Blocks of the Niosomal Intelligent Delivery System」

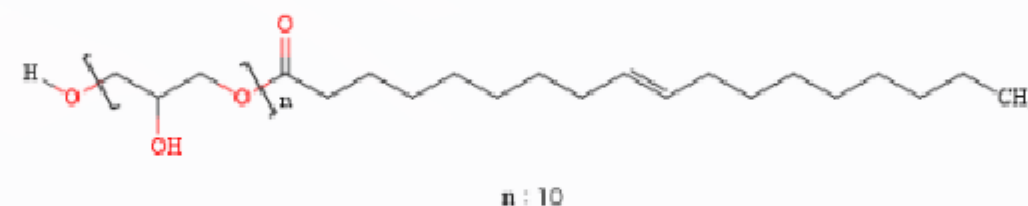


「Polyglyceryl-6 Laurate」



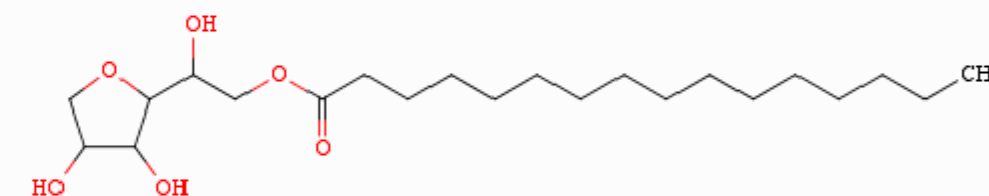
Provides excellent emulsifying and stabilizing properties, serving as a key structural component in the formation of the Niosome bilayer membrane and helping to create well-defined vesicular carriers.

「Polyglyceryl-10 Oleate」



With an appropriate HLB value, it efficiently self-assembles in aqueous systems, enhances membrane fluidity and transdermal permeability, and provides excellent biocompatibility to the delivery system.

「Sorbitan Palmitate」



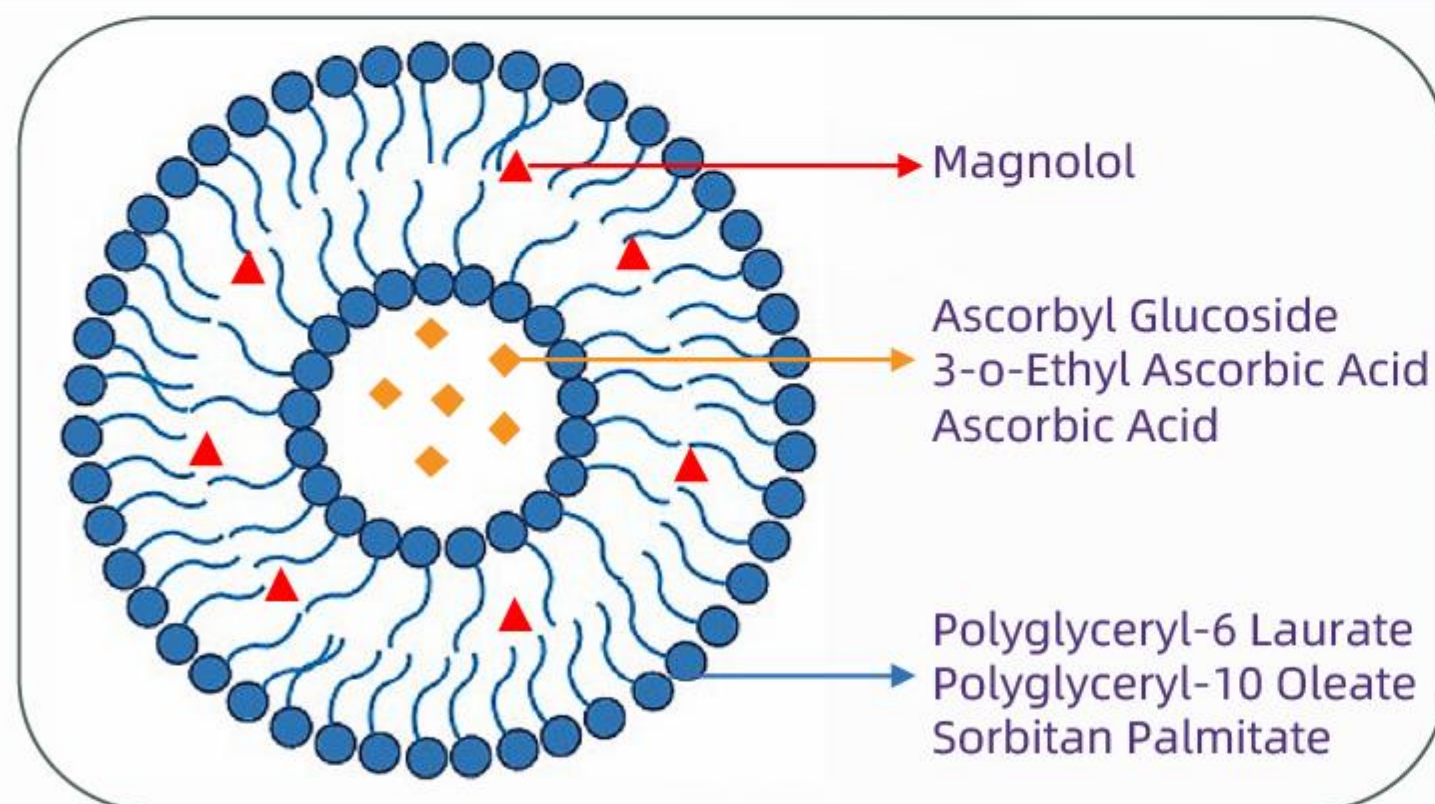
A mild non-ionic surfactant that improves vesicle stability and helps ensure the safety and efficacy of the overall intelligent delivery system.

「Product Introduction-Triple-C Flexosome Complex」 ● ● ●

Triple Vitamin C Encapsulated in One Formula – The Perfect Balance of Performance and Stability

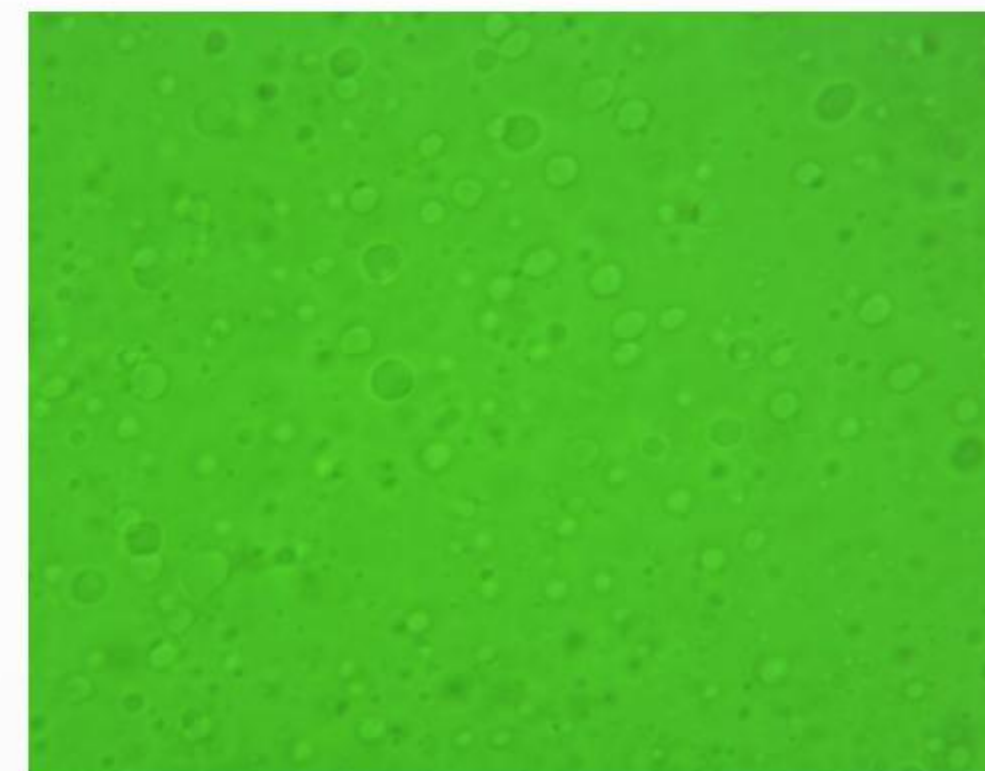
- Powered by advanced Niosomal Encapsulation Delivery Technology, ZLEY®ASCORYTHM utilizes a carefully selected combination of three non-ionic surfactants to construct a flexible vesicular delivery system. This intelligent carrier precisely encapsulates three Vitamin C actives together with the botanical antioxidant Magnolol, achieving an optimal balance of stability, penetration, and long-lasting efficacy.

By overcoming the common limitations of conventional Vitamin C formulations – such as oxidation, discoloration, deactivation, and poor absorption – the system maximizes the skincare potential of Vitamin C, delivering visible radiance and sustained skin repair from within.



Structural Illustration: ZLEY®ASCORYTHM

Niosomes
Encapsulation
Delivery
Technology



Under Microscopic Observation,
ZLEY®ASCORYTHM Exhibits a
Spherical Vesicular Distribution[1]

「Product Efficacy-ZLEY®ASCORYTHM」



01.Antioxidant Protection Against Photoaging

- Scavenges excess free radicals and activates the Nrf2 endogenous antioxidant pathway, upregulating antioxidant genes such as HO-1, γ-GCLC, and NQO-1 to defend against UV radiation and environmental pollution, thereby helping delay photoaging.

02.Brightening & Tone-Evening Radiance

- Inhibits the cAMP-CREB-MITF signaling pathway, reducing the expression and activity of MC1R, TRP-1/2, tyrosinase, and other melanogenesis-related proteins to suppress melanin production.
- Simultaneously induces autophagy to enhance melanin degradation and promote a clearer, more radiant complexion.

03.Collagen Boosting, Anti-Wrinkle & Firming

- Stimulates fibroblast activity and promotes the production of collagen and elastin, improving skin elasticity while reducing the appearance of fine lines and skin laxity.

04.Soothing, Anti-Inflammatory & Barrier Repair

- Inhibits the NF-κB signaling pathway and downregulates inflammatory cytokine expression to help relieve skin sensitivity and inflammation while strengthening skin barrier repair.

「Mechanism of Action: Protection · Delivery · Sustained Release」



01

Carrier Formation

Three non-ionic surfactants self-assemble in an aqueous environment to form a stable Niosomal flexible vesicular structure, providing a protective shell for the active ingredients.



02

Active Encapsulation

Utilizing the dual structure of a hydrophilic core and hydrophobic bilayer membrane, the system efficiently encapsulates the Triple-Vitamin C Complex and Magnolol for high-loading delivery of active ingredients.



03

Transdermal Delivery

The flexible Niosomal vesicles act as “transport carriers,” delivering active ingredients through the stratum corneum barrier to ensure efficient penetration into deeper skin layers.



04

Controlled Release & Synergistic Action

Following release, ZLEY®ASCO-RYTHM works synergistically to provide antioxidant protection, brightening effects, and collagen stimulation, while Magnolol enhances antioxidant defense and delivers soothing anti-inflammatory benefits for multi-pathway skincare efficacy.

「Three Core Advantages」



01

「Active Preservation · Long-Lasting Stability」

The bilayer membrane structure formed through the self-assembly of non-ionic surfactants is chemically stable and effectively protects active ingredients from external factors such as light, heat, and oxygen, significantly enhancing product shelf-life stability.

02

「Efficient Transdermal Delivery · Deep Skin Penetration」

The unique flexible vesicular structure effectively penetrates the stratum corneum barrier and delivers active ingredients into deeper skin layers through mechanisms including membrane fusion, deformable penetration, and skin appendage pathways, greatly improving bioavailability.

03

「Gentle Sustained Release · Continuous Efficacy」

Active ingredients are gradually released within the skin, avoiding irritation caused by sudden high concentrations. This significantly improves formulation gentleness while providing prolonged antioxidant, brightening, and anti-aging benefits.

Part . 04

「STABILITY EVALUATION (APPEARANCE & CONTENT)」



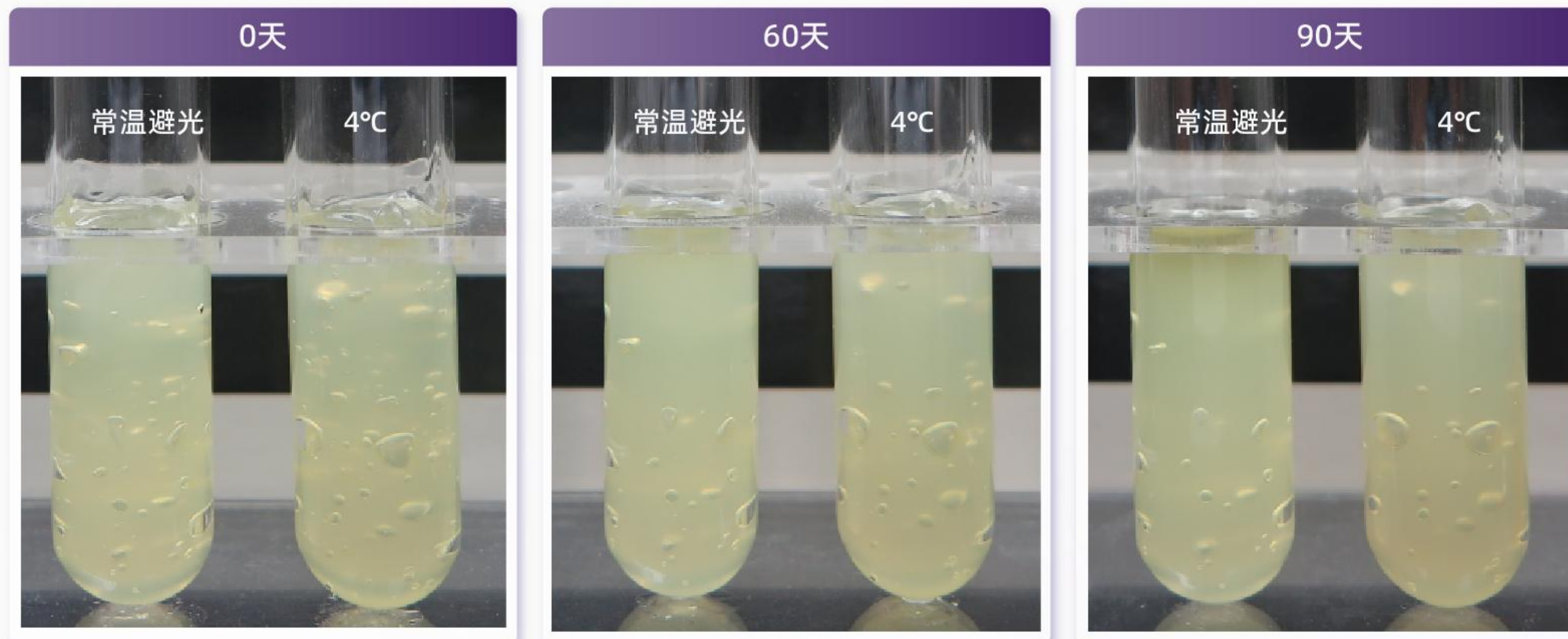
STABILITY (APPEARANCE, CONTENT)

INNOVATIVE ELEMENTS TO AMELIORATE LIFE

「Appearance Stability - 90 Days」



Appearance: ZLEY®ASCORYTHM: Viscous solution ranging from light yellow to yellow



As shown in the figure, after 90 days of observation, ZLEY®ASCORYTHM exhibited no phase separation or color changes under both room temperature (protected from light) and 4°C storage conditions.

「Content Stability – 90 Days」•••

- As shown in the figure, under room temperature storage protected from light, the ZLEY®ASCORYTHM demonstrated superior stability of ascorbyl glucoside and 3-O-ethyl ascorbic acid compared to a simple blended VC solution, retaining over 84% of their content after 90 days.

Figure 1 : Retention rate of ascorbyl glucoside

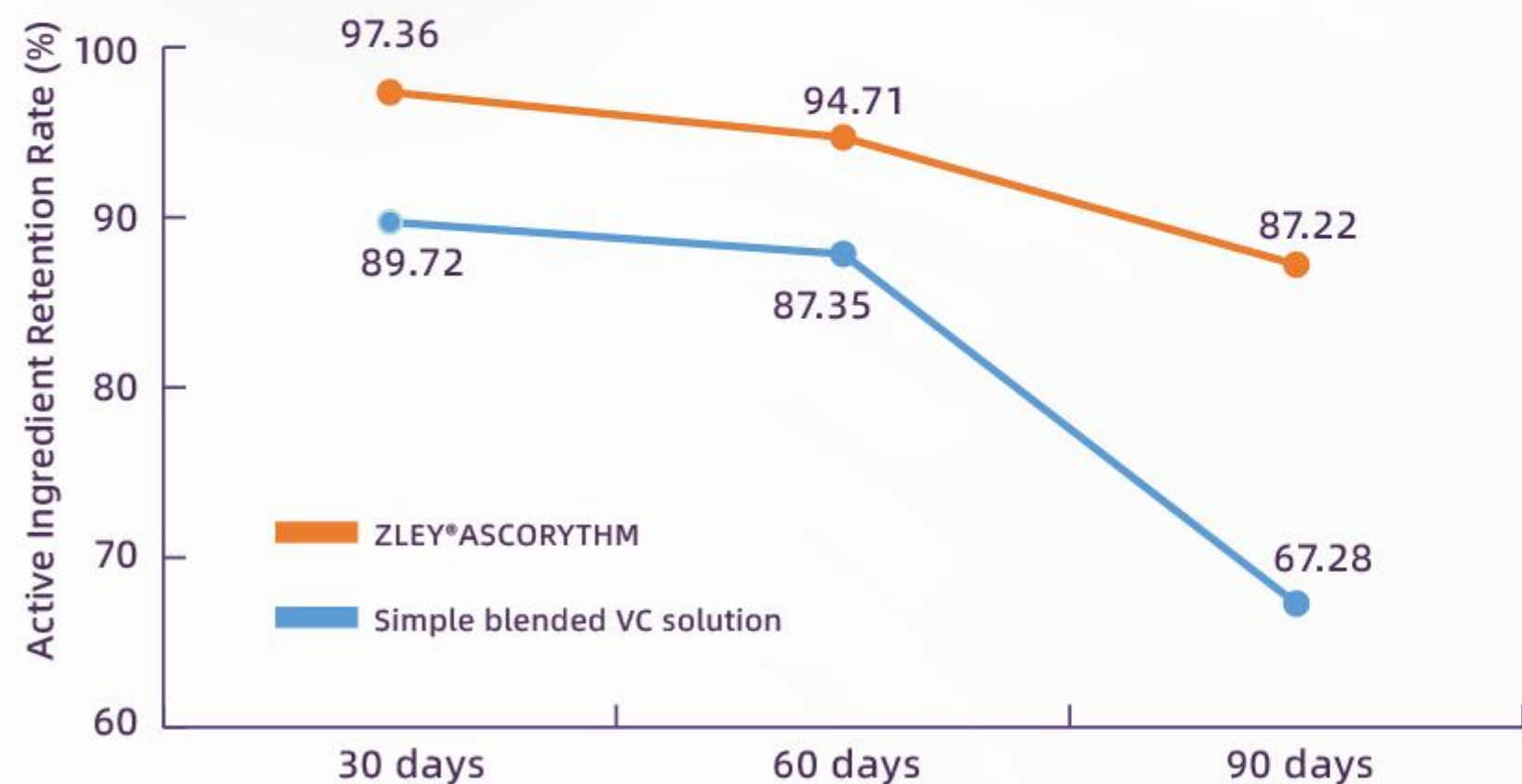
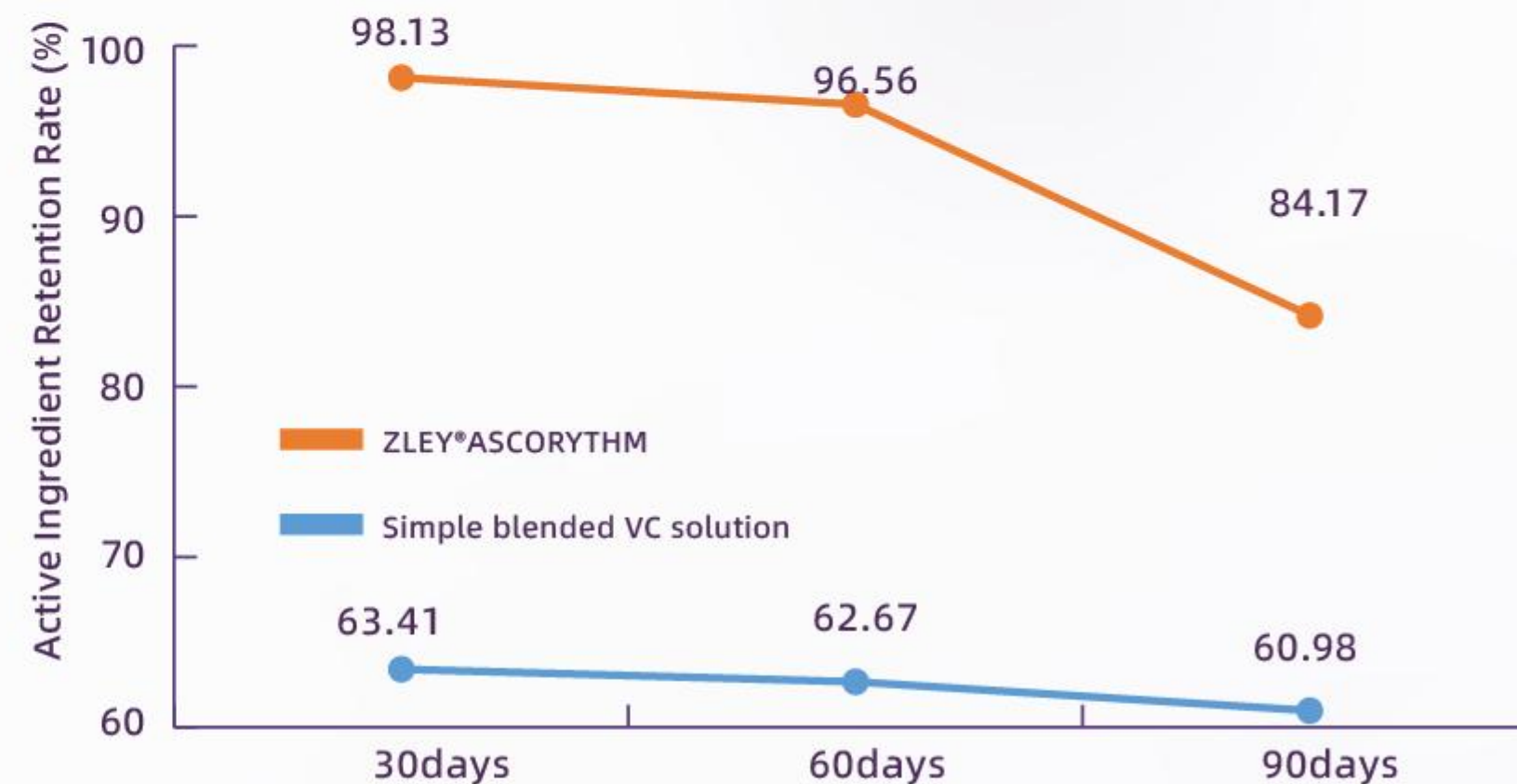


Figure 2 : Retention rate of 3-O-ethyl ascorbic acid



Part . 05

「EFFICACY EVALUATION」



EFFICACY EVALUATION

INNOVATIVE ELEMENTS TO AMELIORATE LIFE

「01) Rapid Repair within 2 Hours」•••

1.1) Principle of the Test

● An increase in cell migration indicates a promotion of wound healing. In this test, the wound healing rate was calculated based on the speed of cell migration in a scratch assay to evaluate the repair effect of the test material.

1.2) Test Sample

● 0.01% ZLEY®ASCORYTHM

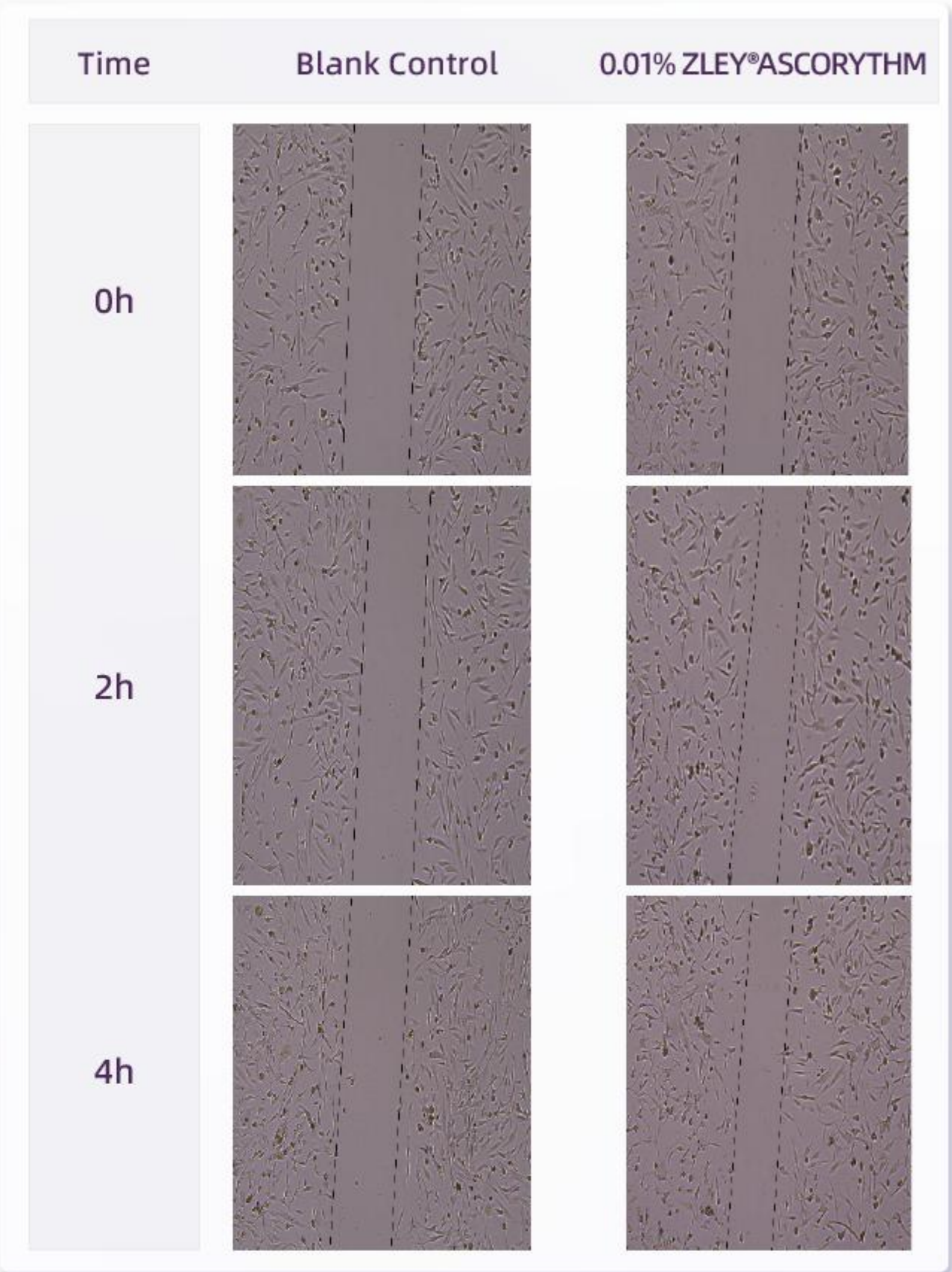
1.3) Test Results

● As shown in the figure below, the ZLEY®ASCORYTHM promoted the scratch closure of human dermal fibroblasts.

Time	Sample	Repair effect(%)	P Value
2h	Blank control	8.06	/
	0.01% ZLEY®ASCORYTHM	24.52	<0.05
4h	Blank control	12.68	/
	0.01% Ascorythm	28.37	<0.05

● Compared with the blank control group, 0.01% ZLEY®ASCORYTHM significantly increased the scratch wound closure rate of cells at both 2h and 4h (P<0.05), indicating a marked promotion of cell migration and demonstrating its repair effect.

Data sourced from a third-party testing institution.



「02) Anti-Wrinkle & Firming – Promotion of Type I Collagen Production」



2.1) Test Reference

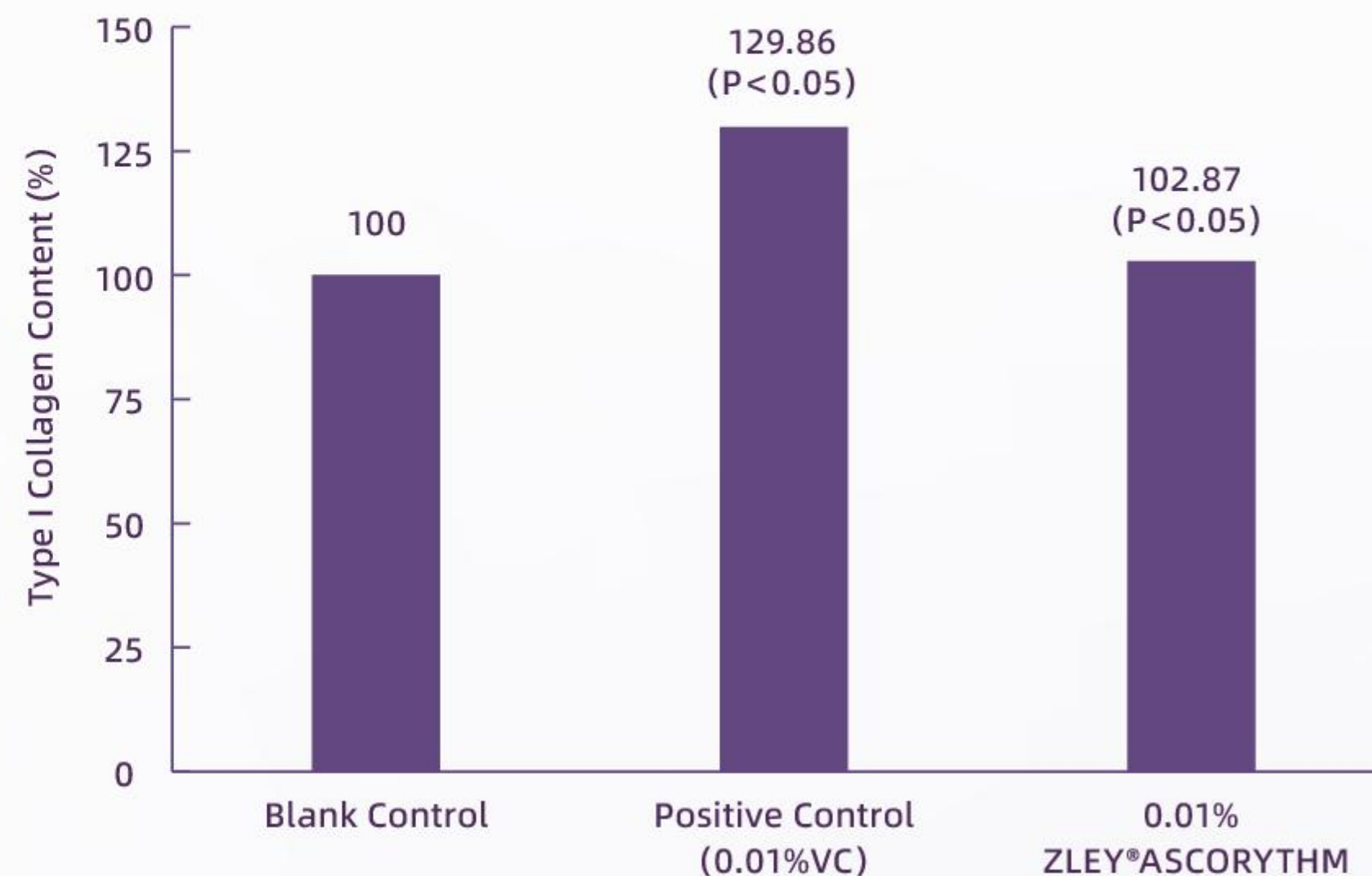
- In Vitro Determination of Type I Collagen Content for Anti-Wrinkle and Firming Efficacy of Cosmetics

2.2) Test Sample

- 0.01% ZLEY®ASCORYTHM

2.3) Test Results

- Compared with the blank control group, 0.01% ZLEY®ASCORYTHM significantly increased the expression of Type I collagen, with an upregulation rate of 2.87% ($P < 0.05$). This indicates a statistically significant effect, demonstrating that ZLEY®ASCORYTHM possesses anti-wrinkle and firming efficacy.



「03) Brightening & Whitening – Inhibition of Melanin Formation」

3.1) Test Reference

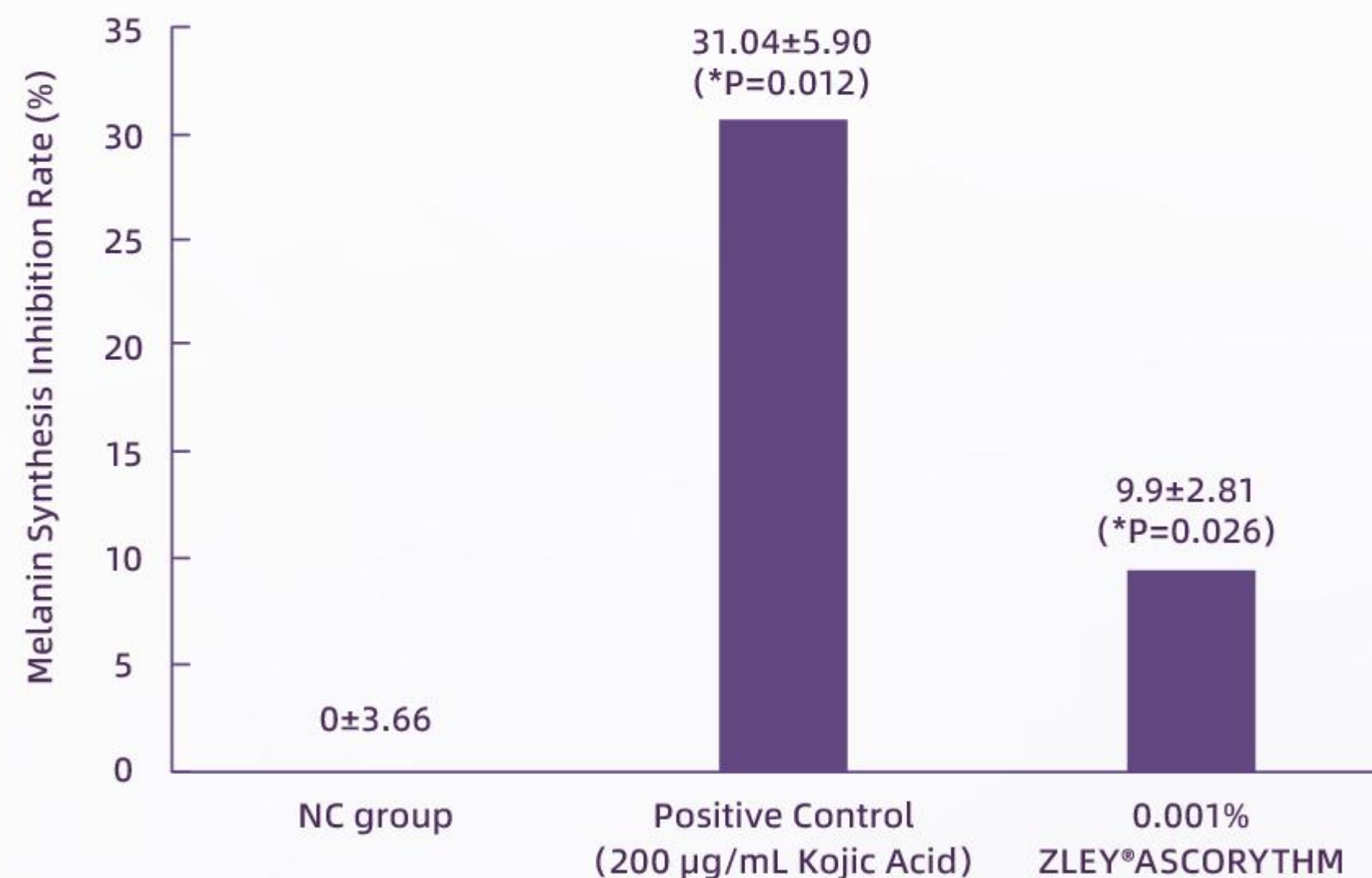
- In Vitro Melanin Synthesis Inhibition Assay in B16 Cells for Cosmetic Evaluation

3.2) Test Sample

- 0.001% ZLEY®ASCORYTHM

3.3) Test Result

- Compared with the NC group, the positive control group (200µg/mL kojic acid) showed a significant inhibition of melanin production in B16 cells (*P<0.05), confirming the validity of the assay model.
- Treatment with 0.001%ZLEY®ASCORYTHM resulted in a melanin inhibition rate of 9.9±2.81%, which was significantly different from the NC group.
- These results indicate that ZLEY®ASCORYTHM possesses whitening and brightening efficacy.



Formula Sheet – 5% ZLEY®ASCORYTHM-Essence Serum

Phase	Ingredient	INCI name	ω%	Supplier
A	Water	Water	TO 100	—
	Glycerin	Glycerin	4.00	—
	WEO	Hydroxyethyl Acrylate/Sodium Acryloyldimethyl Taurate Copolymer	0.65	—
	BAREMUL SAT	Sodium Acrylate/Sodium Acryloyldimethyl Taurate Copolymer	0.20	—
	HCM	Xanthan Gum	0.07	—
	Sodium Gluconate	Sodium Gluconate	0.03	—
	Sodium Hyaluronate	Sodium Hyaluronate	0.03	—
	Beta-Glucan	Beta-Glucan	0.02	—
	Trehalose	Trehalose	2.00	—
	ZLEY®BIOCARE-PCH	Chlorphenesin, Phenoxyethanol, 1,2-Hexanediol, Water	0.80	ZLEY
	Jojoba Esters	Jojoba Esters	0.40	—
	Glycereth-26	Glycereth-26	2.00	—
	Panthenol	Panthenol	0.12	—
B	ZLEY®ASCORYTHM	Ascorbyl Glucoside, 3-o-Ethyl Ascorbic Acid, Ascorbic Acid, Magnolol, Polyglyceryl-6 Laurate, Polyglyceryl-10 Oleate, Sorbitan Palmitate, Water	5.00	ZLEY
	Butylene Glycol	Butylene Glycol	3.00	—
	Water	Water	10.00	—

「04) 14-Day Clinical Evaluation on Human Subjects」



- **Test Sample:** 5% ZLEY®ASCORYTHM-Essence Serum
- **Appearance:** White semi-transparent essence serum
- **pH Value (10% Solution):** 5.87
- **Test Duration:** 14 Days
- **Directions:** Apply twice daily, morning and evening
- **Evaluation Instrument:** VISIA Skin Analysis System

Subject 1:

After 14 days of using the 5% ZLEY®ASCORYTHM-Essence Serum, facial wrinkles decreased by 45.71%. Localized redness was visibly reduced, while skin tone appeared more even, radiant, and luminous, with a smoother and more refined skin texture.



Subject 2:

After 14 days of using the 5% ZLEY®ASCORYTHM-Essence Serum, facial wrinkles decreased by 51.72%. Dullness and yellow undertones were significantly improved, resulting in clearer, brighter, and more radiant-looking skin.

使用前



使用14天后



Part . 06

「TECHNICAL INFORMATION」



TECHNICAL INFORMATION

INNOVATIVE ELEMENTS TO AMELIORATE LIFE

ZLEY®ASCORYTHM

Powered by Niosomal Encapsulation Delivery Technology

High Stability · Enhanced Permeation · Sustained Release

「Technical Information」

Product Name	ZLEY®ASCORYTHM
INCI Name	ASCORBYL GLUCOSIDE、3-o-ETHYL ASCORBIC ACID、ASCORBIC ACID、MAGNOLOL、POLYGLYCERYL-6 LAURATE、POLYGLYCERYL-10 OLEATE、SORBITAN PALMITATE、WATER
CAS No.	129499-78-1、86404-04-8、50-81-7、528-43-8、51033-38-6、79665-93-3、26266-57-9、7732-18-5
Safety Rating	Green (Source:Beauty Database)
Comedogenic Risk	None (Source: Beauty Database)
Product Benefits	Antioxidant Brightening, Anti-Wrinkle & Firming, Barrier Repair
Appearance	Light yellow to yellow viscous liquid with a characteristic odor
Recommended Dosage	1.0-10.0%
Recommended Formulation pH	4 ~ 6
Solubility	Water-dispersible
Processing Guidelines	Emulsion Systems: Pre-disperse with part of the water phase or polyols until uniform, then add into the formulation at room temperature with stirring until evenly mixed. Non-Emulsion Systems: Suitable for semi-transparent serum and semi-transparent aqueous formulations.

Thickening System

- Recommended thickeners include SK425, U21, cellulose-based thickeners, sodium hyaluronate, xanthan gum, and other high-molecular-weight thickening agents.

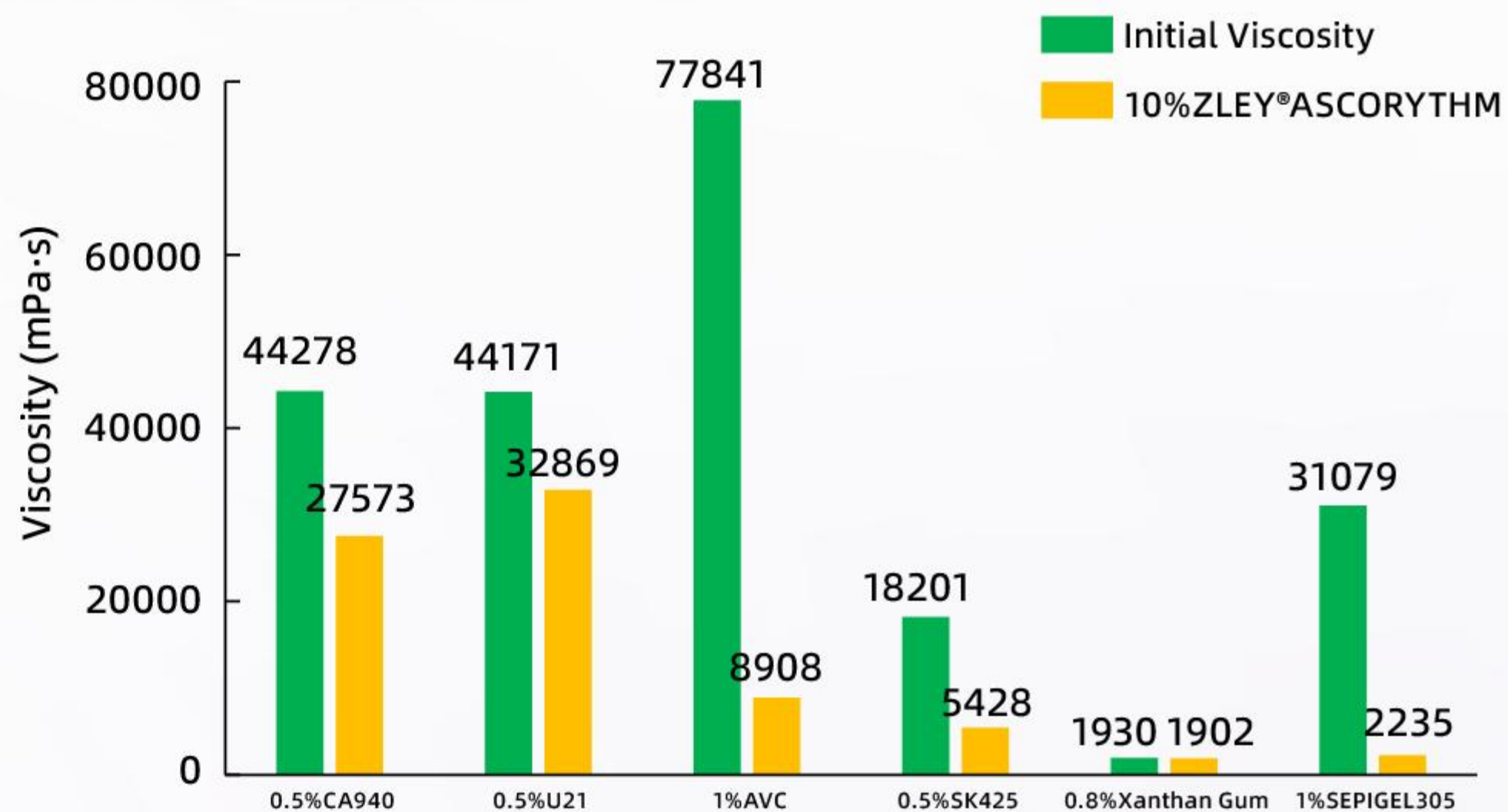
Compatibility Considerations

- The formulation system should avoid copper and iron ions. The addition of chelating agents such as EDTA-2Na or sodium gluconate is recommended.
- Alkaline formulation environments should also be avoided whenever possible, as they may induce discoloration of the ZLEY®ASCORYTHM.

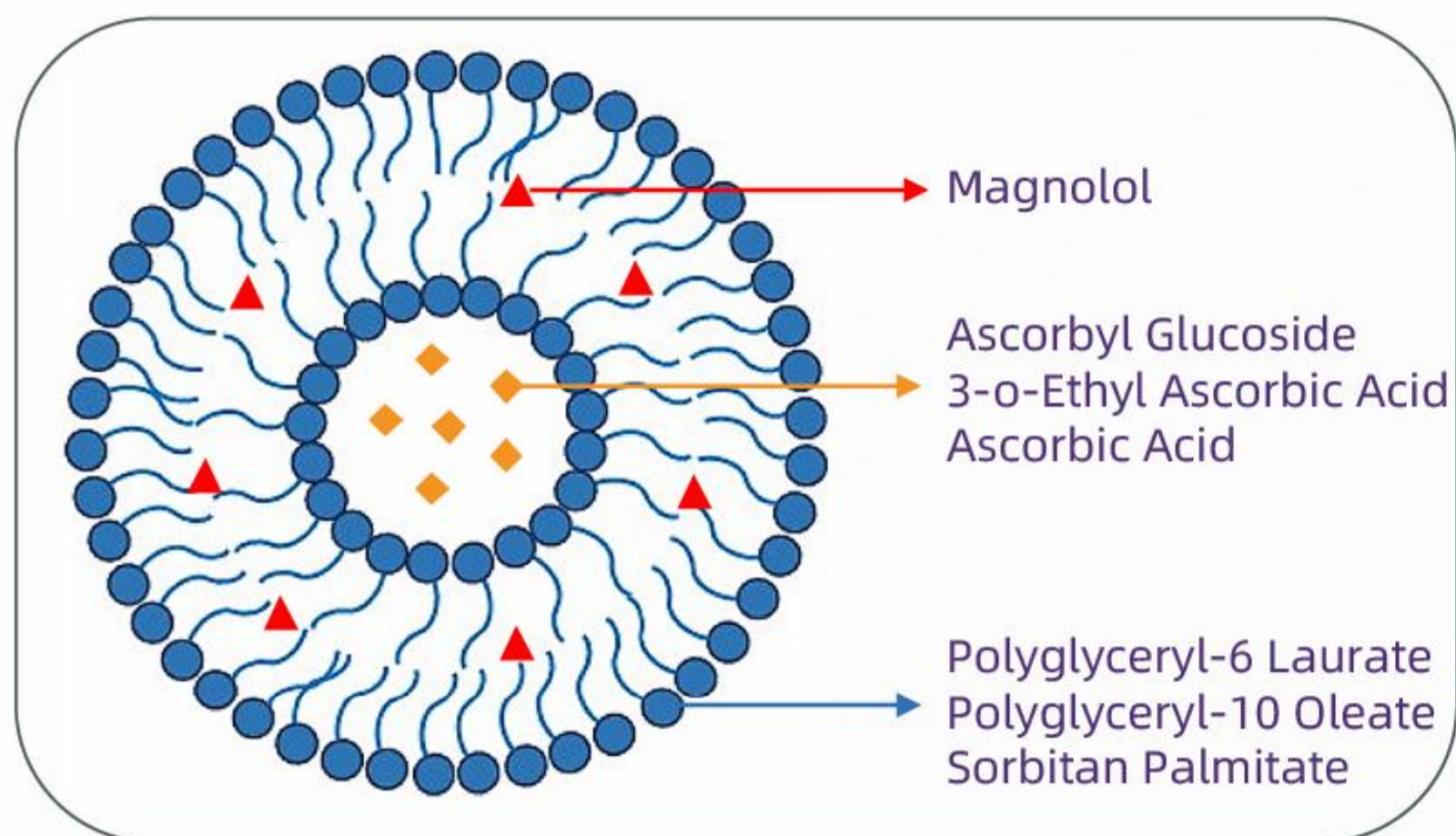
Precautions

- Avoid prolonged exposure to high temperatures. Light-protective or opaque packaging materials are recommended whenever possible.

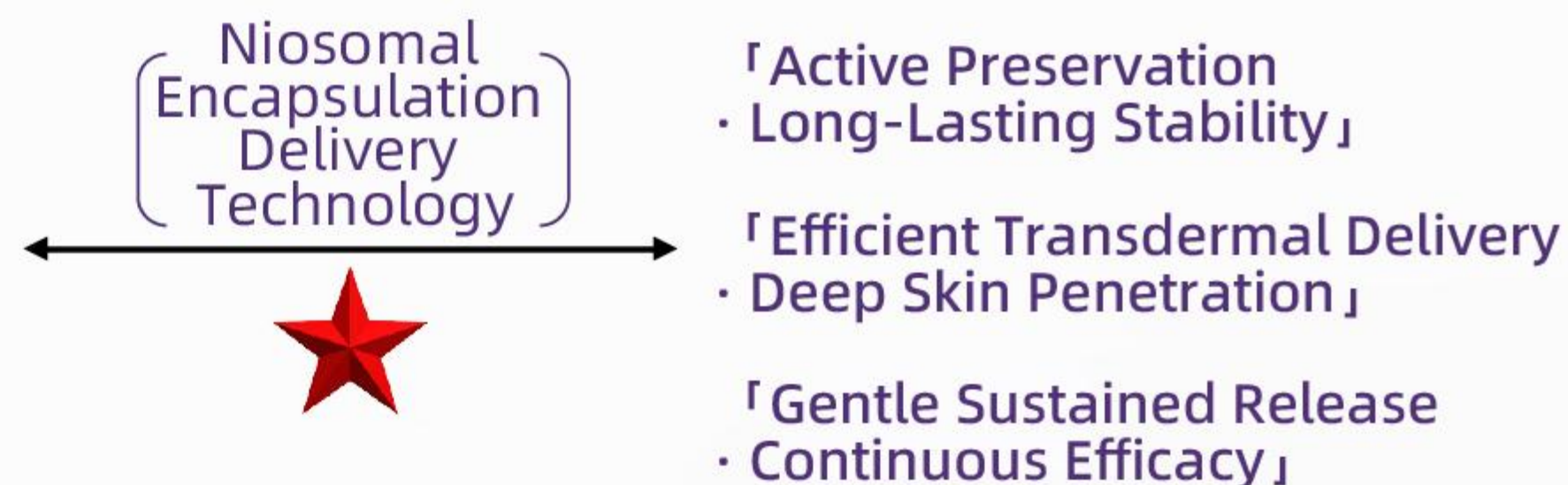
Figure: Effect of 10% ZLEY®ASCORYTHM on the Viscosity of Different Thickening Systems



「Key Product Selling Points」...



Structural Illustration: ZLEY®ASCORYTHM



Phase	Ingredient	INCI name	ω%	Supplier
A	Water	Water	TO 100	—
	Glycerin	Glycerin	4.00	—
	WEO	Hydroxyethyl Acrylate/Sodium Acryloyldimethyl Taurate Copolymer	0.50	—
	BAREMUL SAT	Sodium Acrylate/Sodium Acryloyldimethyl Taurate Copolymer	0.20	—
	HCM	Xanthan Gum	0.06	—
	Sodium Gluconate	Sodium Gluconate	0.03	—
	Sodium Hyaluronate	Sodium Hyaluronate	0.03	—
	Beta-Glucan	Beta-Glucan	0.02	—
	Trehalose	Trehalose	2.00	—
	ZLEY®BIOCARE-PCH	Chlorphenesin, Phenoxyethanol, 1,2-Hexanediol, Water	0.80	ZLEY
	Glycereth-26	Glycereth-26	2.00	—
	Xanthan Gum	Xanthan Gum	0.12	—
B	Jojoba Esters	Jojoba Esters	0.40	—
	ZLEY®ASCORYTHM	Ascorbyl Glucoside, 3-o-Ethyl Ascorbic Acid, Ascorbic Acid, Magnolol, Polyglyceryl-6 Laurate, Polyglyceryl-10 Oleate, Sorbitan Palmitate, Water	10.00	ZLEY
	Butylene Glycol	Butylene Glycol	3.00	—
	Water	Water	10.00	—



► 「Formula Name」: 10% ZLEY®ASCORYTHM Serum

► 「Formula No.」: T26010702

► 「Product Benefits」: Brightening & Tone-Evening

► 「Product Appearance」: Semi-transparent white serum

► 「pH 值(10% Sol.)」: 5.87

► 「μ/mPa·s (25°C)」: 2#12R 1240mpa.s

► 「Processing Parameters」

- 1. Accurately weigh Phase A ingredients, heat to 70–80° C, mix thoroughly, homogenize for 3–5 minutes, and allow to swell uniformly.
- 2. Accurately weigh Phase B ingredients and disperse evenly in water for later use.
- 3. Stir and cool Phase A to below 50° C, then add Phase B into Phase A, mix thoroughly with stirring, and discharge the final product.

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