

#WorldofBioCosmetics

Meteoric Cosmeceuticals

Beauty Meets Brilliance in Biotech

ENZYMES • EXOSOMES • BIOACTIVES
POSTBIOTICS • BOTANICALS



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METEOXOMES™

EXOSOME RANGE

Powered by advanced Korean biotechnology, **METEOXOMES™** harnesses nano-sized extracellular vesicles to enhance cellular communication and optimize skin performance. Rich in naturally occurring bioactive molecules, these next-generation actives support skin regeneration, hydration, barrier function, and visible skin vitality for high-performance cosmetic formulations.



Scan Here for
Our Product Range

HYALURONIC ACID LOADED BROCCOLI EXOSOME

Hyaluronic acid loaded Broccoli Exosome combines **Broccoli-derived Exosomes with Hyaluronic Acid (HA)** using an **innovative loading DDDS technology**. This innovative technology enhances the stability, penetration, and bioavailability of Hyaluronic Acid, enabling efficient topical delivery for superior skin rejuvenation and repair.

Broccoli-derived exosomes are natural plant nanocarriers with excellent skin compatibility and enhanced cellular uptake. When combined with Hyaluronic Acid using Korean DDDS technology, they improve ingredient stability, penetration, and overall skin performance compared to conventional Hyaluronic Acid formulations.



KEY CLAIMS



Deep
Hydration



Anti-Aging &
Wrinkle Reduction



Skin
Rejuvenation



Barrier Repair



Collagen Synthesis
Support



Wound Healing &
Skin Regeneration

INCI Name

Broccoli Plant
Extracellular
Vesicles, Hyaluronic
Acid, 1,2-Hexanediol,
Water



Exosome Particles / Recommended Dosage

1 million Exosomes per
5 mL vial

One 5 mL vial for
a single topical
application



Appearance

Transparent colourless
liquid



pH

5.5~7.5



APPLICATIONS



Anti-Aging & Rejuvenation
Formulations



Hydrating & Barrier
Repair Products



Skin Brightening
Treatments



Advanced Topical
Cosmeceutical
Delivery Systems

EFFICACY STUDIES

- In the efficacy studies of HA Broccoli Exosome group demonstrated the highest collagen synthesis, showing a substantial 400 % increase in COL1A1 mRNA expression compared to the Control, HA, and Broccoli Exosome groups. While Hyaluronic acid and Broccoli Exosome alone showed minimal improvement, their combination produced a statistically significant synergistic effect, indicating enhanced collagen production and improved skin regeneration potential.
- The HA Broccoli Exosome group exhibited the greatest reduction by 80% in MMP-1 mRNA levels, significantly lower than the Control, HA, and Broccoli Exosome groups. Since MMP-1 is a key enzyme responsible for collagen degradation, its suppression suggests a strong anti-aging effect by helping preserve the skin's collagen matrix and structural integrity.

COLLAGEN LOADED BROCCOLI EXOSOME

Collagen Loaded Broccoli Exosome combines **Broccoli-derived Exosomes** loaded with **Marine Collagen** using an innovative **Digital Drug Delivery System (DDDS)** technology. This advanced loading platform enhances the stability, penetration, and bioavailability of collagen, enabling efficient topical delivery for superior skin rejuvenation, firming, and repair.

Broccoli-derived exosomes are natural plant nanocarriers with excellent skin compatibility and enhanced cellular uptake. When loaded with Marine Collagen through Korean DDDS technology, they significantly improve collagen stability, skin penetration, and biological performance compared to conventional collagen formulations, delivering targeted anti-aging and regenerative benefits.



KEY CLAIMS



**Skin Firming
& Lifting**



**Anti-Aging &
Wrinkle Reduction**



**Collagen
Synthesis Support**



**Barrier
Strengthening**



**Skin Regeneration
& Repair**



**Brightening &
Even Skin Tone**

INCI Name

Broccoli Plant
Extracellular Vesicles,
Marine Collagen
Type 1, 1,2-Hexanediol,
Water



Exosome Particles / Recommended Dosage

1 million Exosomes per
5 mL vial

One 5 mL vial for
a single topical
application



Appearance

Transparent colourless
liquid



pH

5.5~7.5



APPLICATIONS



Anti-aging skincare



**Firming and lifting
products**



**Skin regeneration
and repair**



Replenishing Lotion



**Brightening and even
tone care**



**Post procedure recovery
care**

EFFICACY STUDIES

- Treatment with Collagen loaded Broccoli Exosome significantly enhanced human dermal fibroblast regeneration, increasing cell proliferation by **40%** while reducing the collagen-related proliferation gene PTK2B by **50%**. It also decreased the inflammatory marker **TNF-α** by **20%** and the aging marker Cyclin **D1** by **55%**, demonstrating improved skin regeneration, reduced inflammation, and anti-aging efficacy compared to the control.

CICA EXOSOME

Cica Exosome harnesses the regenerative power of **Centella Asiatica-derived Exosomes** using advanced Korean exosomal biotechnology for targeted skin repair and rejuvenation. These naturally derived plant exosomes are rich in bioactive molecules that enhance cellular communication, accelerate skin recovery, and strengthen the skin barrier. Through precise exosome-mediated delivery, Cica Exosome improves the penetration and bioavailability of Centella Asiatica actives, offering superior soothing, collagen stimulation, and barrier restoration compared to conventional Centella extracts.



KEY CLAIMS



Collagen
Synthesis Support



Anti-Aging &
Wrinkle Reduction



Deep
Hydration



Skin Regeneration
& Recovery



Skin Soothing &
Anti-Inflammatory



Barrier Repair &
Strengthening

INCI Name

Centella Asiatica
Leaf Extracellular
Vesicles, Aqua, 1, 2 -
Hexanediol



Exosome Particles

>1x10⁸
particles/ml



Appearance

Clear to
pale solution



Recommended Dosage

~1%



pH

6.0~8.0



APPLICATIONS



Soothing & Sensitive
Skin Care Formulations



Acne Care & Barrier
Repair Products

Anti-Aging & Firming
Treatments



Moisturizing & Recovery
Formulations



Advanced Topical
Cosmeceutical Delivery
Systems

EFFICACY STUDIES

- In efficacy studies, Cica Exosome demonstrated potent anti-inflammatory activity by significantly suppressing the production of major inflammatory mediators. Treatment resulted in over 80% reduction in IL-6 levels, along with concentration-dependent decreases in TNF- α and IFN- γ expression, confirming its exceptional soothing and calming efficacy for sensitive and irritated skin.
- Cica Exosome blocks production of inflammatory mediators for effective skin soothing, IFN- γ levels significantly decrease with increasing exosome concentration. Over 30% inhibition observed at high concentration.

PANAX GINSENG EXOSOME

Panax Ginseng Exosome combines the revitalizing power of **Panax ginseng** with advanced **Korean exosome technology** for targeted skin rejuvenation. Derived from Panax ginseng—a botanical treasured for centuries for its restorative properties. It acts as an intelligent nano-carriers, enhancing the delivery of bioactive signalling molecules to support effective cell-to-cell communication.

By improving the bioavailability of Panax ginseng actives, it helps protect against oxidative stress, soothe skin, improve firmness and elasticity, strengthen skin resilience, and promote visible skin renewal for a smoother, healthier, and more radiant-looking complexion. Compared to conventional Panax ginseng extracts, its advanced exosome delivery system provides superior skin performance and efficacy.



KEY CLAIMS



Antioxidant Protection



Anti-Inflammatory & Skin Soothing



Anti-Aging & Wrinkle Reduction



Skin Firming & Elasticity Improvement



Barrier Strengthening



Skin Brightening & Radiance

INCI Name

Panax Ginseng Extracellular Vesicles, 1,2-hexanediol, water



Exosome Particles

>1x10⁸ particles/ml



Appearance

Colourless liquid



Recommended Dosage

0.01 - 2%



pH

6.0~8.0



APPLICATIONS



Anti-Aging & Firming Skincare Formulations



Soothing & Recovery Treatments



Antioxidant Protection Products



Immune-Supportive & Cytoprotective Skin Care



Brightening & Skin Revitalizing Formulations

EFFICACY STUDIES

- In efficacy studies, Panax Ginseng Exosome demonstrated potent anti-aging, antioxidant, and skin-protective activity by regulating multiple biological pathways associated with skin health. Treatment reduced **p16 expression by up to 20%**, helping to delay cellular aging, while increasing **SOD2 activity by over 500%**, providing exceptional antioxidant protection against oxidative stress. It also enhanced LOX expression by approximately **150%**, promoting collagen-elastin cross-linking for improved skin firmness and elasticity. Additionally, Panax Ginseng Exosome reduced TNF-α to soothe inflammation and **inhibited TYR expression by up to 30%**, helping reduce melanin synthesis for a brighter, more even complexion.

CURCUMA LONGA EXOSOME

Curcuma Longa Exosome harnesses the regenerative power of **Curcuma longa (Turmeric)-derived Exosomes** using advanced Korean exosomal biotechnology for targeted skin renewal and protection. These naturally derived plant exosomes are enriched with curcumin-associated bioactive molecules that enhance cellular communication, promote collagen synthesis, suppress inflammatory mediators, and reinforce the skin's natural defense system. Through precision exosome-mediated delivery, Curcuma Longa Exosome improves the penetration and bioavailability of turmeric actives, providing superior antioxidant protection, skin regeneration, barrier strengthening, and radiance enhancement compared to conventional turmeric extracts.



KEY CLAIMS



Antioxidant Protection



Skin Soothing & Anti-Inflammatory



Collagen Synthesis Support



Anti-Aging & Firming



Barrier Strengthening



Skin Radiance & Regeneration

INCI Name

Curcuma Longa (Turmeric) Rhizome Extracellular Vesicles, Water, 1, 2-Hexanediol



Exosome Particles

$>1 \times 10^8$ particles/ml



Appearance

Clear to pale solution



Recommended Dosage

1-2%



pH

6.0~8.0



APPLICATIONS



Radiance & Brightening Serums



Complexion Correcting Creams



Pigment Reducing Gel Formulations



Acne & Blemish Care Products



Barrier Strengthening & Skin Repair Treatments

EFFICACY STUDIES

- In efficacy studies, **Curcuma Longa Exosome** demonstrated remarkable regenerative and anti-inflammatory performance by stimulating collagen synthesis while suppressing key inflammatory mediators. Treatment increased **COL1 gene expression by approximately 40%** and **COL3 gene expression by approximately 35%**, promoting extracellular matrix remodeling for improved skin elasticity and firmness. Additionally, it significantly reduced **TNF- α expression by approximately 35%** and **IL-6 expression by up to 65%**, confirming its exceptional ability to calm irritation, repair damaged skin, and restore a healthier skin barrier.

GINSENG PDRN EXOSOME

Ginseng PDRN Exosome is an advanced plant-derived regenerative platform engineered using digital exosome delivery technology. Utilizing Korean ginseng-derived exosomes as intelligent nanocarriers, it enables targeted delivery of broccoli-derived PDRN directly into scalp cells with exceptionally high uptake efficiency.

This next-generation system enhances bioavailability, penetration, and cellular absorption while supporting scalp regeneration, follicular activation, collagen synthesis, and overall hair vitality through a non-invasive topical approach. Suitable for advanced scalp regeneration, hair growth, and follicle strengthening formulations.



KEY CLAIMS



Advanced Exosome
Delivery Technology



Follicular Activation



Collagen
Regeneration



Targeted Scalp
Regeneration



Hair Density
Enhancement



Non-Invasive Hair
Growth Support

INCI Name

Ginseng
Extracellular Vesicles,
Broccoli PDRN,
Hyaluronic Acid,
1,2-Hexanediol, Water



Exosome Particles / Recommended Dosage

1 million Exosomes per
5 mL vial

One 5 mL vial for
a single topical
application



Appearance

Transparent
colourless
liquid



pH

5.5~7.5



APPLICATIONS



Hair Growth Serums &
Tonics



Scalp Regeneration
Formulations



Advanced Follicle
Activation Treatments



Hair Density Enhancing
Products



Professional Regenerative
Hair Care Systems

EFFICACY STUDIES

- Clinical evaluation demonstrated that **Ginseng PDRN Exosome** significantly improves scalp regeneration and follicular activity within **3 weeks**. Hair density (**VEGF repair**) increased by **25–35%**, while **scalp coverage and follicular blood supply** improved by **30–40%**. **Hair thickness and COL1A1-mediated follicular strengthening** increased by **15–25%**, and **COL3A1-mediated follicle regeneration** improved by **30–40%**. Overall scalp condition and hair growth performance showed an improvement of **30–45%**, confirming its efficacy as a high-performance regenerative scalp care active.

JAPANESE BIOTECH RANGE

Inspired by Japan's renowned legacy of biotechnology excellence, this exclusive portfolio brings together pioneering ingredients crafted through advanced biofermentation and precision biotechnology.

Engineered for modern biocosmetic formulations, these intelligent actives embody exceptional purity, sophisticated functionality, and uncompromising scientific excellence.



Scan Here for
Our Product Range

RedoxySense™ W



Meteoric
Cosmeceuticals

Beauty Meets Brilliance in Biotech

RedoxySense™ W is an innovative ingredient derived from authentic **Japanese Sake rice** through advanced fermentation technology. **Powered by Thioredoxin, the "mother molecule" of cellular defense**, it works in harmony with the skin's innate redox system to intercept oxidative and immune stress at its earliest stage.

By targeting the skin's internal stress-switch before the inflammatory cascade begins, it helps prevent visible signs of skin damage, including redness, dryness, barrier disruption, pigmentation, and premature aging.

As a **clinically proven Japanese ingredient**, RedoxySense™ W is backed by advanced Thioredoxin science to strengthen the skin barrier, reduce oxidative stress, calm inflammation, and support long-term skin regeneration.

It promotes healthier, firmer, and more resilient skin while delivering rapid, biomimetic protection with exceptional compatibility, making it ideal even for sensitive skin.



KEY CLAIMS



Antioxidant
Protection



Anti-Inflammatory
& Skin Soothing



Anti-Aging &
Wrinkle Reduction



Skin Barrier Repair
& Strengthening



Skin Brightening &
Pigmentation Reduction



Skin Regeneration &
Firmness Improvement

PRODUCT DETAILS



INCI Name

Rice Ferment
Filtrate



Key Composition

Thioredoxin
(over 1000 ppm)



Appearance

White to white,
grey powder



Recommended
Dosage:
0.1-0.2%



Origin

Japanese
sake rice

APPLICATIONS



Anti-Aging & Wrinkle
Care Formulations



Barrier Repair &
Sensitive Skin Products



Pre & Post-
Procedure Skincare



After-Sun Care
Formulations



Moisturizing Creams
& Serums



Brightening & Skin
Recovery Products

EFFICACY STUDIES

- RedoxySense™ W demonstrated outstanding antioxidant, anti-aging, and skin-protective performance by strengthening the skin's natural redox defense system. At 0.1% concentration, it increased Filaggrin expression to approximately 1500% of the control and enhanced autophagy (LC3II expression) to approximately 1000% of the control, promoting skin barrier repair and cellular renewal. Ex-vivo studies showed significant recovery from UV-induced inflammation, while clinical evaluation confirmed visible wrinkle reduction, improved skin firmness within 4 weeks, reduced pigmentation, enhanced skin regeneration, and excellent compatibility for sensitive skin.

Re:Laméil™ is an innovative **Japanese biosurfactant** derived through advanced bio-fermentation of rare Japanese flower yeast from Mt. Tsukuba and olive oil. **Powered by Mannosyl Erythritol Lipid (MEL)**, it forms lamellar structures that closely mimic the skin's natural lipid matrix, enabling rapid penetration while reinforcing the skin barrier and enhancing moisture retention. By improving the delivery and bioavailability of active ingredients, Re:Laméil™ promotes healthier, smoother, and more resilient skin.

As a clinically proven Japanese ingredient, Re:Laméil™ **combines advanced MEL** biotechnology with exceptional skin compatibility to strengthen the skin barrier, enhance hydration, improve water-holding capacity, and reduce fine lines and wrinkles. Its rapid absorption, non-sticky sensory profile, and biomimetic lamellar technology make it an ideal multifunctional ingredient for next-generation dermocosmetic and skincare formulations.



KEY CLAIMS



Deep Hydration &
Moisture Retention



Skin Barrier Repair
& Strengthening



Enhanced Active
Delivery & Bioavailability



Rapid Skin
Penetration



Anti-Aging &
Wrinkle Reduction



Smooth, Non-Sticky
Sensory Feel

PRODUCT DETAILS



INCI Name

Glycolipids



Key Composition

Mannosyl Erythritol
Lipid (MEL)



Appearance

Yellow oily liquid



Recommended
Dosage:

0.1-0.2%



Origin
Japanese
flower yeast &
olive oil

APPLICATIONS



Barrier Repair & Sensitive
Skin Formulations



Hydrating Creams,
Gels & Serums



Pre & Post-Procedure
Skincare



Anti-Aging &
Firming Products



Dermocosmetic
Formulations



Facial
Cleansers

EFFICACY STUDIES

- Re:Laméil™ demonstrated outstanding moisturizing, barrier-repair, and delivery-enhancing performance through its biomimetic lamellar technology. Clinically proven to penetrate the skin within 60 seconds, it increased skin hydration by approximately **2% after 3 days, 6% after 7 days, and 10% after 30 days**, while fluorescence imaging confirmed approximately **10% improvement in skin moisturization**. Pendant drop analysis further showed exceptional surfactant efficiency by reducing surface tension by up to **92%** compared with squalane and up to **87%** compared with caprylic/capric triglyceride, enabling superior wetting, spreading, and active ingredient delivery. It also enhanced water-holding capacity, reinforced the skin barrier, reduced fine lines and wrinkles, and delivered excellent skin compatibility at a low dosage of just **0.1-0.2%**.

Re:Laméil™ BG



EcoBIO-Surfactant

Meteoric
Cosmeceuticals

Beauty Meets Brilliance in Biotech

Re:Lameil™ BG is an advanced **Japanese ingredient** developed through advanced bio-fermentation of **rare Japanese flower yeast and olive oil** specifically for haircare. Powered by **Mannosyl Erythritol Lipid (MEL) with Butylene glycol**, it mimics the hair's natural lipid lamellae to repair and protect the hair fiber from within. By forming biomimetic lipid layers, it smooths the cuticle, strengthens the internal hair structure, reduces friction, and restores softness, shine, and resilience to damaged hair.

As a clinically proven Japanese ingredient, **Re:Lameil™ BG combines advanced MEL biotechnology with superior hair barrier science** to protect damaged hair, enhance cuticle integrity, improve hair strength, and promote long-lasting shine. Its rapid penetration, excellent compatibility, and low-use level make it an ideal multifunctional active for next-generation hair and scalp care formulations.



KEY CLAIMS



Hair Cuticle Repair & Protection



Hair Strengthening & Breakage Reduction



Hair Shine Enhancement



Hair Friction Reduction



Lamellar Structure Formation



Hair & Scalp Barrier Protection

PRODUCT DETAILS



INCI Name

Glycolipids and Butylene Glycol



Key Composition

Mannosyl Erythritol Lipid (MEL)



Appearance

Yellow oily liquid



Recommended Dosage:

0.1-0.2%



Origin

Japanese flower yeast & olive oil

APPLICATIONS



Hair & Scalp Treatments



Hair Repair & Protection Serums



Bio-Defense Hair Care Products



Hair Masks & Conditioners



Leave-on Hair Care Formulations



Professional Hair Repair Treatments

EFFICACY STUDIES

- Re:Lameil™ BG demonstrated outstanding hair repair, strengthening, and conditioning performance through its biomimetic MEL technology. Scientifically proven to penetrate within **60 seconds in skin's scalp**, it reduces hair friction by approximately **10% at 0.1%** and **13% at 0.2%**, resulting in smoother, more manageable hair. **Efficacy studies also confirmed significant cuticle remodelling** at concentrations as low as **0.1-0.2%**, enhanced hair shine, improved smoothness and toughness, and selective accumulation within the hair medulla to form protective lamellar structures for long-lasting repair and resilience-ray scattering analysis further demonstrated **selective accumulation of Re:Lameil™ BG within the hair medulla**, where it **induced biomimetic lamellar structure formation**, providing long-lasting internal repair and strengthening of both healthy and damaged hair fibers.

HYALURONIC ACID RANGE

Engineered through advanced biotechnology, our Hyaluronic Acid portfolio offers a comprehensive spectrum of molecular weights and specialized derivatives to deliver targeted hydration across multiple layers of the skin.

Designed for precision performance, each grade addresses specific formulation needs from immediate surface moisturization to deep skin hydration and barrier support.

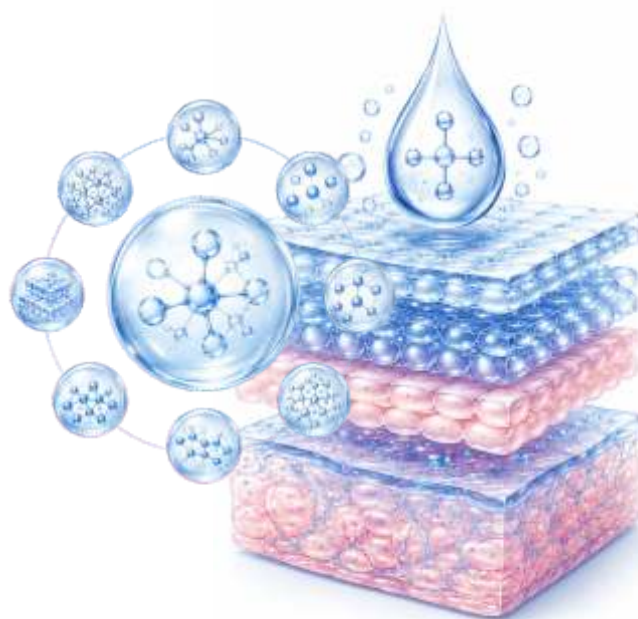


Scan Here for
Our Product Range

4D Hyaluronic Acid

INTRODUCTION

4D Hyaluronic Acid integrates four synergistic molecular weights to deliver precise, multi-level hydration through a **biomimetic, skin-adaptive mechanism**. Its intelligent layering system replenishes moisture at the epidermis, reinforces the stratum corneum, and forms an invisible hydrating veil that supports barrier recovery and long-lasting suppleness. The deeper fraction penetrates efficiently to maintain dermal hydration equilibrium, leaving the skin visibly smoother, plumper, and more resilient.



KEY CLAIMS



Multi-Level
4D Hydration



Long-Lasting
Moisture
Retention



Skin Barrier
Support



Deep
Hydration



Enhanced Skin
Plumpness



Smooth
& Soft Skin

PRODUCT DETAILS

INCI name	Appearance	Recommended Dosage	pH
Sodium Hyaluronate, Sodium Hyaluronate Crosspolymer, Sodium Acetylated Hyaluronate, Hydrolyzed Sodium Hyaluronate	Colourless to light yellow liquid	1-10%	5.0~7.0

APPLICATIONS

- ✓ Hydration Boosting Serums
- ✓ Moisturizers & Barrier Repair Creams
- ✓ Anti-Aging Formulations
- ✓ Dermocosmetic Treatments
- ✓ Soothing Masks

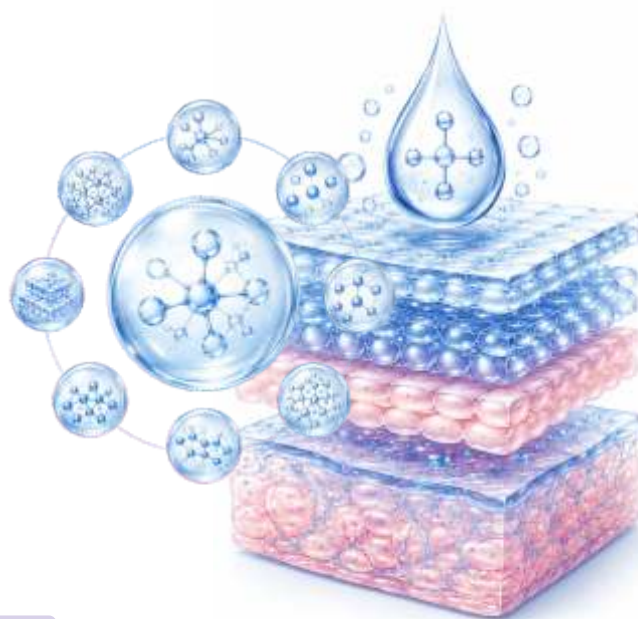
EFFICACY HIGHLIGHTS

In efficacy studies, 4D Sodium Hyaluronate demonstrated outstanding moisturizing and barrier-enhancing efficacy by providing immediate and long-lasting hydration. At 0.10% concentration, it increased skin moisture retention by approximately 27% after 1 hour, while maintaining 26% hydration after 4 hours and 25% after 7 hours. It also forms a dense invisible protective film, repairs the cuticle barrier, and delivers deep water-locking for softer, smoother, and well-hydrated skin.

8D Hyaluronic Acid

INTRODUCTION

8D Hyaluronic Acid integrates eight synergistic molecular weights to deliver advanced multi-dimensional hydration through precision biopolymer engineering. Its stratified hydration network enhances osmotic water distribution, reinforces the skin barrier, and promotes prolonged moisture retention across multiple skin layers, from the **stratum corneum** to the **epidermis** and **dermis**. By supporting hydration throughout these layers, it visibly improves skin smoothness, elasticity, suppleness, and overall radiance.



KEY CLAIMS



**8D
Multi-Layer
Hydration**



**Long-Lasting
Moisture
Retention**



**Barrier
Strengthening**



**Deep
Hydration
Distribution**



**Improved
Elasticity &
Plumpness**



**Brighter,
Healthier-Looking
Skin**

PRODUCT DETAILS

INCI name	Appearance	Recommended Dosage	pH
Sodium Hyaluronate (1.0-1.5 M Da), Hyaluronic acid (1.0-1.5 M Da), Hydroxypropyltrimonium Hyaluronate, Sodium Hyaluronate Crosspolymer, Sodium Acetylated Hyaluronate, Hydrolyzed Sodium Hyaluronate, Hydrolysed Hyaluronic acid, Hyaluronic acid (0.5W- 0.7 M Da)	Colourless to light yellow liquid	1 – 10%	5.0~7.0

APPLICATIONS

- ✓ Hydration Boosting Formulations
- ✓ Brightening & Rebalancing Skincare
- ✓ Barrier Repair Products
- ✓ Gel Creams, Moisturizers & Sheet Masks
- ✓ Anti-Aging Treatments
- ✓ Post-Procedure Soothing Care

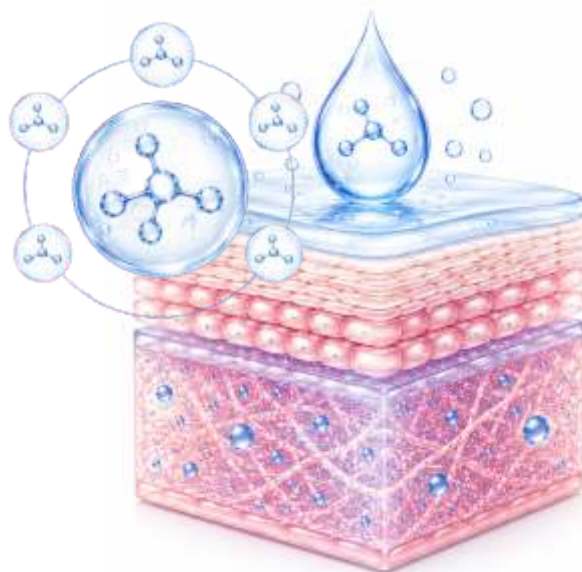
EFFICACY HIGHLIGHTS

8D Hyaluronic Acid enhances hydration across multiple skin layers while reducing transepidermal water loss (TEWL). Its multi-molecular-weight system improves water distribution, strengthens the epidermal barrier, supports long-term moisture retention through a crosslinked HA network, and enhances skin elasticity, suppleness, and overall hydration balance.

HMW - High Mol. Wt. Hyaluronic Acid (1.5–2.5 MDa)

INTRODUCTION

HMW Hyaluronic Acid is produced through precision microbial biotechnology to provide immediate **skin surface hydration** and advanced barrier protection. Its high molecular weight structure **forms a breathable bio-lamellar moisture matrix on the skin surface**, mimicking the skin's natural moisture barrier to lock in moisture while reducing transepidermal water loss (TEWL). By reinforcing the **stratum corneum**, it delivers long-lasting hydration, improves skin comfort, and leaves the skin visibly softer, smoother, and more resilient.



KEY CLAIMS



Immediate
Surface
Hydration



Moisture
Barrier
Protection



TEWL
Reduction



Long-Lasting
Hydration



Skin
Soothing



Enhanced
Skin Softness

PRODUCT DETAILS

INCI name	Appearance	Recommended Dosage	pH
Sodium Hyaluronate	White Or Almost White Powder or Granules	0.05 – 0.5%	6.0~7.5

APPLICATIONS

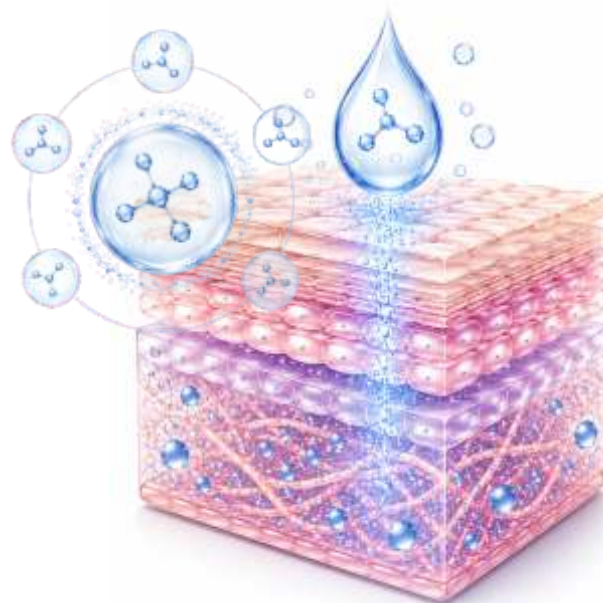
- ✓ Long-Wear Moisturizers & Creams
- ✓ Barrier Repair Formulations
- ✓ Hydrating Sheet Masks & Overnight Treatments
- ✓ Sensitive Skin Care Products
- ✓ Age-Defying Serums

EFFICACY HIGHLIGHTS

HMW Hyaluronic Acid demonstrated significant improvement in stratum corneum hydration with a noticeable increase in skin moisture within the first hour of application. Continuous use over 28 days reduced transepidermal water loss (TEWL), while its high molecular weight film-forming network helped minimize dryness and redness, providing prolonged hydration and enhanced barrier protection.

LMW - Low Mol. Wt. Hyaluronic Acid

(0.1–0.5 Mda)



INTRODUCTION

LMW Hyaluronic Acid is developed through controlled enzymatic hydrolysis to deliver targeted hydration deep within the skin. Its low molecular weight enables efficient penetration **across the skin surface and the stratum corneum to the epidermis**, where it supports cellular hydration, reinforces the extracellular matrix, and promotes skin renewal. By enhancing collagen support, elasticity, and skin resilience, it provides advanced hydration with visible anti-aging and skin-repair benefits.

KEY CLAIMS



Deep
Hydration



Skin
Renewal



Collagen
Support



Improved
Elasticity



Anti-
Inflammatory
Care



Antioxidant
Protection

PRODUCT DETAILS

INCI name	Appearance	Recommended Dosage	pH
Sodium Hyaluronate	White Or Almost White Powder or Granules	0.05 – 0.5%	6.0~7.5

APPLICATIONS

- ✓ Anti-Aging Serums & Lifting Creams
- ✓ Barrier Repair Formulations
- ✓ Hydrating Essences & Concentrates
- ✓ Restorative Skin Treatments

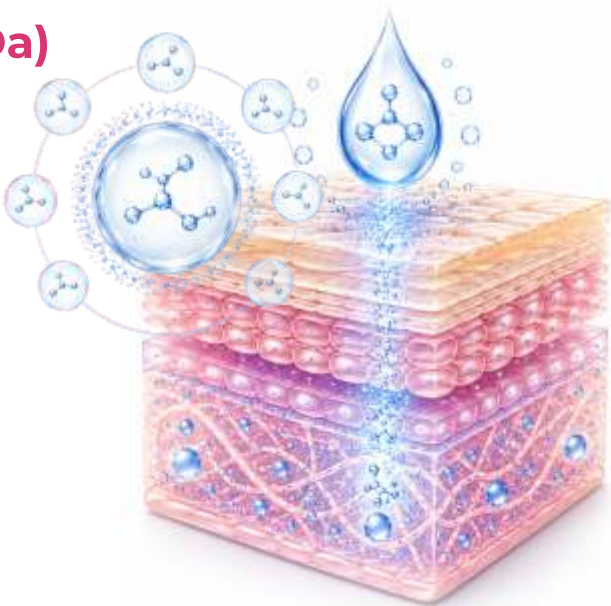
EFFICACY HIGHLIGHTS

In a 28-day study, LMW Hyaluronic Acid demonstrated significant improvements in skin elasticity. In vitro studies confirmed anti-inflammatory activity through suppression of IL-15 and TNF- α expression, while antioxidant assays verified its protective activity against oxidative stress. Together, these benefits support deep epidermal hydration, improved skin firmness, reduced appearance of fine lines, and enhanced skin resilience.

ULMW - Ultra Low Mol. Wt. Hyaluronic Acid (<0.1 MDa)

INTRODUCTION

ULMW Hyaluronic Acid represents the next generation of hyaluronic acid technology, engineered through precision biotechnology to achieve exceptional bioavailability within deeper skin layers. Its ultra-low molecular weight enables enhanced diffusion through the **stratum corneum** and **epidermis**, supporting hydration and skin performance in the **deeper layers**, including the **dermis**. By combining advanced water-binding capacity with skin-regenerative activity, it delivers visible improvements in elasticity, smoothness, and overall skin vitality.



KEY CLAIMS



Cellular-Level
Hydration



Skin
Regeneration



Anti-
Inflammatory
Activity



Antioxidant
Protection



Improved
Elasticity



Advanced
Anti-Aging

PRODUCT DETAILS

INCI name	Appearance	Recommended Dosage	pH
Sodium Hyaluronate	White Or Almost White Powder or Granules	0.05 – 0.5%	6.0~7.5

APPLICATIONS

- ✓ High-Performance Serums & Ampoules
- ✓ Premium Anti-Aging Creams
- ✓ Sheet Masks & Post-Procedure Care
- ✓ Sensitive Skin & Antioxidant Formulations
- ✓ Moisturizing & Replenishing Creams

EFFICACY HIGHLIGHTS

ULMW Hyaluronic Acid delivered measurable hydration within 1 hour, with hydration and skin elasticity continuing to improve over 28 days of application. It significantly reduced UV-induced erythema and pigmentation while demonstrating potent antioxidant and anti-inflammatory activity through suppression of TNF- α and LTB₄, with efficacy comparable to Dexamethasone in inflammatory marker reduction.

Oligo Hyaluronic Acid (3-5 kDa)

INTRODUCTION

Oligo Hyaluronic Acid is an **ultra-low molecular weight hydrolyzed hyaluronic acid** developed through advanced enzymatic biotechnology for enhanced dermal penetration. Its optimized molecular size enables it to penetrate through the **stratum corneum** and **epidermis** to reach the **dermis**, delivering targeted hydration within deeper skin layers while supporting extracellular matrix integrity, cellular communication, and skin repair. By replenishing the skin's moisture reservoirs from within, it improves elasticity, refines skin texture, and promotes a smoother, healthier, and more resilient complexion.



KEY CLAIMS



Ultra-Deep
Hydration



Cellular Repair
Support



Barrier
Restoration



Skin
Renewal



Improved
Elasticity



Anti-Aging
Performance

PRODUCT DETAILS

INCI name	Appearance	Recommended Dosage	pH
Hydrolysed Sodium Hyaluronate	White or almost white powder or granules	0.1-0.5%	5.0~8.0

APPLICATIONS

- ✓ Anti-Aging Creams & Lotions
- ✓ Dermocosmetic Regenerative Formulations
- ✓ Barrier Repair Products
- ✓ Acne-Prone & Sensitive Skin Treatments
- ✓ Hydration Boosters

EFFICACY HIGHLIGHTS

Oligo Hyaluronic Acid demonstrated significant skin repair on acne-prone areas after 28 days, while improving skin hydration and barrier function. It also enhanced skin firmness and elasticity, visibly reduced fine lines and wrinkle depth, and supported cellular renewal with antioxidant protection for healthier, more resilient skin.

Sodium Hyaluronate Crosspolymer



INTRODUCTION

Sodium Hyaluronate Crosspolymer is an advanced crosslinked form of hyaluronic acid engineered through precision biopolymer technology to create a three-dimensional hydration matrix. This stabilized network **forms a breathable, protective film that remains on the skin surface**, creating a durable moisture reservoir that delivers sustained hydration, reinforces the skin barrier, and provides long-lasting softness and suppleness. Its intelligent film-forming structure enhances moisture retention while improving skin resilience and sensory performance.

KEY CLAIMS



Sustained-
Release
Hydration



3D Moisture
Reservoir



Long-Lasting
Barrier
Support



Film-Forming
Technology



Enhanced Skin
Cushioning



Superior Skin
Compatibility

PRODUCT DETAILS

INCI name	Appearance	Recommended Dosage	pH
Hydrolysed Sodium Hyaluronate	White or almost white powder or granules	0.05-1.0%	5.0~7.5

APPLICATIONS

- ✓ Long-Wear Moisturizers & Serums
- ✓ Sensitive & Dry Skin Formulations
- ✓ Anti-Aging Creams
- ✓ Second-Skin Cosmetic Products

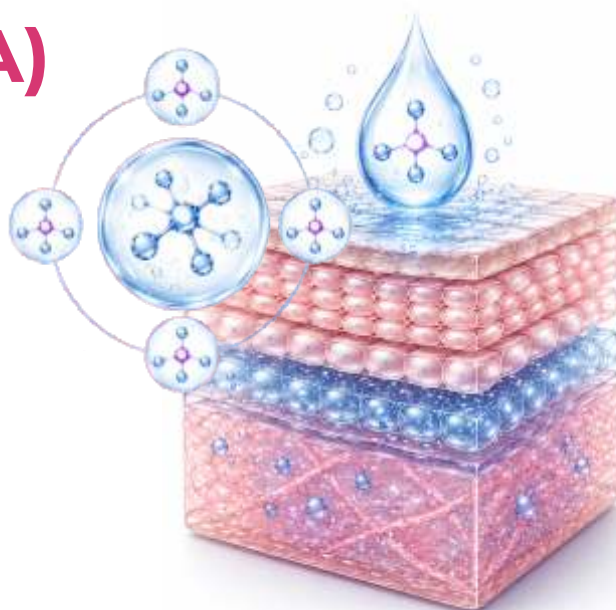
EFFICACY HIGHLIGHTS

Sodium Hyaluronate Crosspolymer demonstrated excellent skin compatibility with no cytotoxicity or irritation in in vitro and human skin assessments. Clinical evaluation showed a statistically significant +8.32% improvement in skin cushioning and surface smoothness ($p < 0.05$), while a 28-day study indicated mild protection against UVA-induced pigmentation without increasing skin sensitivity.

Dimethylsilanol Hyaluronate (DSHA)

INTRODUCTION

Dimethylsilanol Hyaluronate is a silicon-modified form of hyaluronic acid engineered to deliver advanced hydration and enhanced skin performance. Its structurally optimized framework promotes efficient, long-lasting water binding **within the stratum corneum** while supporting skin elasticity, barrier integrity, and matrix organization. By improving moisture balance and skin firmness, it leaves the skin visibly smoother, more supple, and resilient with a refined sensory feel.



KEY CLAIMS



Long-Lasting
Hydration



Skin Firming
& Elasticity



Collagen
Support



Barrier
Strengthening



Intelligent
Water Binding



Anti-Aging
Performance

PRODUCT DETAILS

INCI name	Appearance	Recommended Dosage	pH
DimethylsilAnol Hyaluronate, PhenoxyethAnol, Ethylhexyl glycerine, Water	Colourless, transparent or slightly milky liquid	0.5-2%	6.0~8.0

APPLICATIONS

- ✓ Anti-Aging Creams
- ✓ Hydrating Formulations
- ✓ Barrier Repair Products
- ✓ Firming & Elasticity Boosters
- ✓ Replenishing Lotions
- ✓ Dermocosmetic Treatments

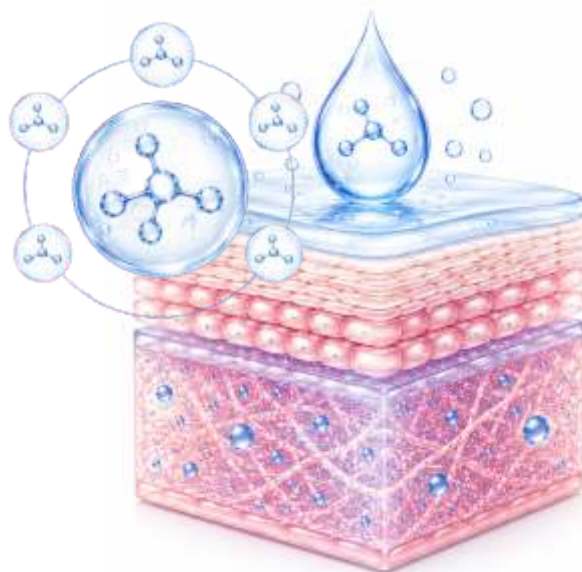
EFFICACY HIGHLIGHTS

Dimethylsilanol Hyaluronate enhances skin elasticity, reduces the appearance of crow's feet and wrinkle area over 28 days, and improves skin tone uniformity. Its intelligent water-binding technology supports epidermal repair, promotes keratinocyte renewal, and strengthens the skin barrier for long-lasting hydration and improved skin resilience.

Cationic Sodium Hyaluronate

INTRODUCTION

Cationic Sodium Hyaluronate is a modified hyaluronic acid derivative engineered with quaternary ammonium cationic groups to provide superior conditioning and long-lasting moisturization. Its strong affinity for hair and scalp enables enhanced moisture retention, improved cuticle repair, and prolonged performance through excellent wash-off resistance. Ideal for shampoos, conditioners, hair masks, leave-on treatments, and scalp care formulations. These findings establish Cationic Sodium Hyaluronate as a highly effective conditioning and moisturizing active for advanced hair care and scalp care formulations.



KEY CLAIMS



Long-Lasting
Hair &
Scalp Hydration



Hair Cuticle
Repair



Superior Hair
Conditioning



Improved
Combability



Wash-Off
Resistant
Performance



Scalp
Moisturization
& Comfort

PRODUCT DETAILS

INCI name	Appearance	Recommended Dosage	pH
Cationic Sodium Hyaluronate	Transparent colourless liquid	0.1-1.0%	5.0~7.0

APPLICATIONS

- ✓ Shampoos
- ✓ Hair Conditioners
- ✓ Hair Masks
- ✓ Leave-On Hair Treatments
- ✓ Scalp Care Products
- ✓ Moisturizing Hair Care Formulations

EFFICACY HIGHLIGHTS

Studies demonstrated that Cationic Sodium Hyaluronate effectively repairs damaged hair cuticles, enhances adhesion to hair and scalp surfaces, and provides long-lasting moisturization due to its excellent wash-off resistance. Cationic Sodium Hyaluronate demonstrated approximately 10% hair adsorption capacity-around 2.5 times (150%) higher than conventional Hyaluronic Acid (4%)-supporting prolonged conditioning and moisture retention.

METBIOMERA™

POSTBIOTIC RANGE

METBIOMERA™ represents the next evolution in Microbiome-focused biocosmetics, featuring advanced Postbiotics powered by beneficial microorganisms to support skin homeostasis and microbiome balance. These advanced and innovative Postbiotics help enhance barrier integrity, improve skin comfort, and promote long-term skin resilience for advanced skincare formulations.



Scan Here for
Our Product Range

MET BIOMERA™ LP 3

(*Lactiplantibacillus plantarum*)

MET BIOMERA™ LP 3 harnesses the complete biological output of *L. plantarum* in a single, multifunctional active. Through controlled fermentation and precision heat-inactivation, whole cells are stabilised within their native fermentation matrix delivering intact, non-viable cells together with the bioactives they generate: plantaricins, lactic and phenyllactic acids, and hyaluronic-acid-type and antioxidant metabolites

One ingredient, four points of action. **MET BIOMERA™ LP 3** renders the skin surface less hospitable to blemish and odour associated microbes, neutralises UV-induced free radicals while supporting a more even tone, and accelerates the appearance of post-procedure recovery through keratinocyte-supportive, anti-inflammatory cellular signalling. Across both facial and intimate skin, it works to rebalance the microbiome and reinforce lasting comfort and hydration.

Product Details

INCI Name	<i>Lactiplantibacillus plantarum</i> and Maltodextrin	Enumeration	$\geq 1 \times 10^9$ TFU/g
Recommended Dosage	1-3 %	pH	≤ 6.0
Appearance	White to off-white free-flowing powder		

Applications



Clarifying acne
serums & creams



Antioxidant day/
after-sun lotions



Post-procedure
recovery creams



Intimate
gels

MET BIOMERA™ LF 30

(*Limosilactobacillus fermentum*)

MET BIOMERA™ LF 30 brings a powerful antioxidant payload to two of skin's most demanding moments barrier recovery and intimate balance. Cultivated and gently inactivated within its antioxidant-rich fermentation conditions, it delivers *L. fermentum* cells together with their retained nicotinamide and glutathione bearing antioxidant components along with anti-inflammatory cell fractions and lactic acid.

On compromised or post-procedure skin, it supports keratinocyte renewal and calms inflammatory signalling to aid total skin recovery. In intimate care, its Lactic acid component demonstrates strong pH balance and clears *Candida* thereby re-establishing the healthy microbiome.

Product Details

INCI Name	<i>Limosilactobacillus fermentum</i> & Maltodextrin	Enumeration	$\geq 1 \times 10^9$ TFU/g
Recommended Dosage	1-3 %	pH	≤ 6.0
Appearance	White to off-white free-flowing powder		

Applications



Post-Procedure
Recovery Serums
& Lotion



Soothing &
Repair Creams



Intimate
Wash



Intimate pH
Balance Lotions



Barrier-Recovery
Masks

MET BIOMERA™ LR 9

(*Lacticaseibacillus rhamnosus*)

MET BIOMERA™ LR 9 takes a gentler route to clarity. Through fermentation and gentle heat-inactivation, the cellular structures of *L. rhamnosus* are preserved with their naturally high lipoteichoic acid content and retained antioxidant metabolites. Together, it acts as an active built to rebalance skin microbiome and deliver deeper soothing.



Where conventional approaches can aggravate already-reactive skin, **MET BIOMERA™ LR 9** effectively synergises with them. Its cell-wall MAMPs engage keratinocyte recognition pathways to reduce the inflammation that drives breakouts, while helping limit the adhesion of blemish associated microbes. The result is skin that looks clearer, calmer and more even, with a visibly reinforced skin barrier.

Product Details

INCI Name	<i>Lacticaseibacillus rhamnosus</i> and Maltodextrin	Enumeration	$\geq 1 \times 10^9$ TFU/g
Recommended Dosage	1-3 %	pH	≤ 6.0
Appearance	White to off-white free-flowing powder		

Applications



Soothing and
Anti-Acne Serums



Soothing Blemish
Gels for sensitive skin



Pore-Refining
Lotions



Redness-
Reducing
Moisturisers



Barrier Repair
Creams

MET BIOMERA™ LC 12

(*Lactobacillus crispatus*)

Cultivated and gently inactivated within its optimum fermentation conditions, **MET BIOMERA™ LC 12** supplies non-viable *L. crispatus* cells together with their D- and L-lactic acid, bacteriocins and characteristic S-layer protein array.



Lactic helps maintain the healthy, acidic environment which is favourable for both intimate and blemish-prone skin. The intact cell surface of **MET BIOMERA™ LC 12** along with bacteriocins competitively excludes imbalance associated microbes thereby promoting healthy microbiome. S-layer proteins promotes calming of irritated skin delivering a total soothing experience.

Product Details

INCI Name	<i>Lactobacillus crispatus</i> & Maltodextrin	Enumeration	$\geq 1 \times 10^9$ TFU/g
Recommended Dosage	1-3 %	pH	≤ 6.0
Appearance	White to off-white free-flowing powder		

Applications



Intimate Washes
& Balancing Gels



pH-Support
Intimate Lotions



Toners for Blemish-
Prone Skin



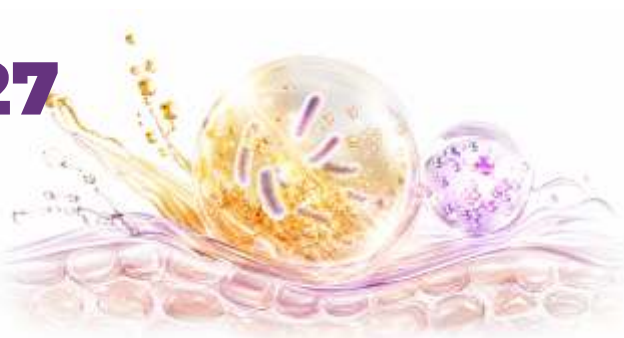
Daily Microbiome-
Balancing Moisturizers

MET BIOMERA™ Lre 27

(*Limosilactobacillus reuteri*)

MET BIOMERA™ Lre 27 actively shields the skin through the harmful effects of UV. Produced through precision fermentation and gently inactivated, it concentrates *L. reuteri*'s photoprotective exopolysaccharides alongside its anti-inflammatory cell components

Under UV stress EPS boosts the skin's own antioxidant enzymes scavenges the reactive oxygen species, thereby reducing matrix-metalloproteinase activity and collagen loss that drive photo-ageing. The cell components help calm UV-induced redness. **MET BIOMERA™ Lre 27** stabilizes skin microbiome of sun and UV exposed skin, making skin look more resilient, even toned and calm.



Product Details

INCI Name	<i>Limosilactobacillus reuteri</i> & Maltodextrin	Enumeration	$\geq 1 \times 10^9$ TFU/g
Recommended Dosage	1-3 %	pH	≤ 6.0
Appearance	White to off-white free-flowing powder		

Applications



After-Sun
Calming Serums



Daytime Photo-
Defence Lotions



Anti-Pollution/
Urban-Defence
Essences



Post-UV
Recovery
Masks



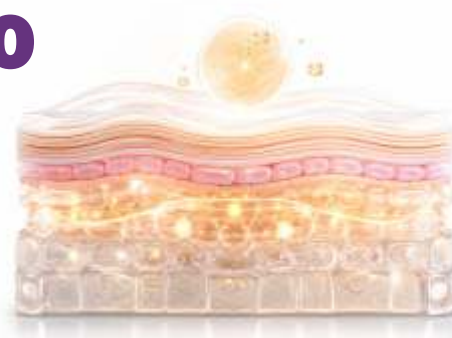
Barrier-Repair
Moisturisers

MET BIOMERA™ AnL 90

(*Bifidobacterium lactis*)

MET BIOMERA™ AnL 90 manages sun stress from the inside out by fortifying the skin barrier itself. Cultivated anaerobically and gently inactivated within its optimized acetate-rich fermentation medium, it concentrates *Bifidobacterium lactis* cell-surface components, antioxidant fractions and short-chain fatty acids.

Its retained acetate and barrier-gene regulating components reinforce the skin barrier thereby supporting filaggrin and aquaporin activity while reducing the oxidative and inflammatory cascade caused by UV exposure. This anti-photoageing action of **MET BIOMERA™ AnL 90** helps protect collagen resulting in even toned calm and resilient skin.



Product Details

INCI Name	<i>Bifidobacterium lactis</i> & Maltodextrin	Enumeration	$\geq 1 \times 10^9$ TFU/g
Recommended Dosage	1-3 %	pH	≤ 6.0
Appearance	White to off-white free-flowing powder		

Applications



After Sun
Soothing Gels



Antioxidant Urban-
Defence Serums



Even Tone Day
Moisturisers



Barrier-Repair
Essences



Post-UV
Recovery Masks

ENZYMES

Our enzyme technologies utilize highly specialized biocatalysts to deliver precise and effective cosmetic performance. Designed for advanced skincare and haircare applications, they provide targeted benefits including gentle exfoliation, antioxidant protection, skin renewal, and enhanced formulation functionality through intelligent biotechnology.



Scan Here for
Our Product Range

Met Broma® (Bromelain)



Bromelain is a biotechnology-derived proteolytic enzyme extracted from pineapple (*Ananas comosus*) using advanced bio-extraction and purification technology. It provides gentle enzymatic exfoliation by selectively breaking down dead skin proteins without disrupting the skin barrier, revealing smoother, brighter, and healthier-looking skin.



In addition to its exfoliating action, Bromelain exhibits anti-inflammatory and antioxidant properties that help calm irritated skin, reduce redness, support wound healing, and improve overall skin clarity. Its multifunctional benefits make it an ideal active ingredient for exfoliating, brightening, post-procedure, and sensitive skin formulations.

Key Claims



Gentle
Enzymatic
Exfoliation



Skin
Brightening



Anti-Inflammatory



Skin
Soothing



Wound
Healing
Support



Smooth
Skin Texture

Product Details

INCI Name	Bromelain
Recommended Dosage	0.1-1.0%
Appearance	Off-white to light beige powder
Activity	2400 GDU/g

Applications

- Exfoliating Facial Masks & Peels
- Cleansers & Scrubs
- Anti-Acne Treatments
- Post-Procedure Soothing Products
- Brightening Formulations
- Sensitive Skin Care

Efficacy Studies

In vitro studies demonstrated that **Bromelain (1%)** significantly reduced protease activity by approximately **45%**, indicating effective enzymatic exfoliation while maintaining skin barrier compatibility. The enzyme also accelerated wound closure and supported faster skin repair compared with untreated controls. [1]

Additionally, Bromelain significantly reduced **UV-induced skin inflammation** and decreased **melanin formation by approximately 10%**, demonstrating its combined brightening, anti-inflammatory, and skin-soothing benefits. These findings confirm Bromelain as a multifunctional biotechnology-derived active for skin renewal and post-procedure care. [2,3]

References

- [1] Brito, Adrienne M.M., et al. Collagenase activity of bromelain immobilized at gold nanoparticle interfaces for therapeutic applications. *Pharmaceutics* 13(8) (2021): 1143.
- [2] Marissa, Zahra, et al. Antioxidant and Photoprotective Activity of Bromelain Cream: An In Vitro and In Vivo Study. *Cosmetics* 12(2) (2025): 41.
- [3] Badriyya, Elsa, et al. Topical anti-inflammatory activity of bromelain. *Pharmacognosy Journal* 12(6) (2020).

Certifications



Met Papa® (Papain)



Papain is a biotechnology-derived proteolytic enzyme obtained from *Carica papaya* through controlled purification processes. It functions as a gentle enzymatic exfoliant by selectively breaking down damaged keratin proteins and removing dead skin cells without disrupting the skin's natural barrier, resulting in smoother, brighter, and healthier-looking skin.

Unlike harsh physical scrubs or chemical exfoliants, Papain promotes natural skin renewal while maintaining skin hydration and barrier integrity. Its mild yet effective exfoliating action improves skin texture, enhances radiance, supports cellular turnover, and increases the penetration of other cosmetic actives, making it suitable even for sensitive skin formulations.

Key Claims



Gentle Enzymatic
Exfoliation



Skin
Renewal



Brightening
& Radiance



Smooth
Skin Texture



Barrier
Friendly



Sensitive
Skin Suitable

Product Details

INCI Name	Papain
Recommended Dosage	0.1–1.0%
Appearance	Off-white to light beige powder
Activity	2000 USP

Applications

- Enzymatic Exfoliating Cleansers
- Brightening Serums
- Resurfacing Masks
- Gentle Peel Formulations
- Pigmentation Control Systems
- Sensitive Skin Products

Efficacy Studies

Clinical evaluation demonstrated that **Met Papa® (Papain)** significantly accelerated wound healing while promoting rapid recovery of skin barrier function. At an optimized concentration of **0.5%**, Papain delivered superior repair efficacy, visibly reducing scarring, lowering tissue inflammation, and supporting faster skin regeneration compared with placebo and untreated controls.

The enzyme also promoted gentle enzymatic exfoliation, improving skin smoothness and texture without compromising skin integrity. These findings confirm Papain as an effective biotechnology-derived active for skin renewal, post-procedure care, and sensitive skin formulations.

Certifications





Superoxide Dismutase (SOD)

Superoxide Dismutase (SOD) is a biotechnology-derived enzymatic antioxidant produced through controlled microbial fermentation and purification technologies. As one of the body's primary antioxidant defense enzymes, it neutralizes reactive oxygen species (ROS) generated by UV radiation, pollution, and environmental stress before they can damage skin cells, collagen, and the skin barrier.

Unlike conventional antioxidants that scavenge free radicals after oxidative damage has begun, SOD acts at the earliest stage of oxidative stress, helping preserve cellular integrity, reduce inflammation, and maintain healthy skin function. Its powerful antioxidant activity supports collagen preservation, strengthens the skin barrier, improves resilience against environmental aggressors, and promotes a smoother, firmer, and more youthful-looking complexion. Suitable for anti-ageing, sun care, barrier repair, and sensitive skin formulations.

Key Claims



Powerful
Antioxidant
Protection



Anti-Ageing &
Wrinkle Defense



UV Damage
Protection



Skin Barrier
Support



Anti-Inflammatory
Benefits



Sensitive
Skin Suitable

Product Details

INCI Name Superoxide Dismutase

Recommended Dosage 0.2–0.5%

Appearance Off-white powder or
clear aqueous solution

Applications

- Anti-Ageing Creams
- Barrier Repair Formulations
- Brightening Serums
- After-Sun Care Products
- Acne Care Formulations
- Sensitive Skin Products

Efficacy Studies

Clinical and preclinical evaluations demonstrated that **Superoxide Dismutase effectively** protects the skin against oxidative damage induced by ultraviolet exposure while supporting collagen preservation and skin recovery. Liposomal SOD exhibited significant protection against UV-induced collagen disorganization, with efficacy comparable to healthy, undamaged skin.

The enzyme also reduced oxidative inflammation and erythema while helping maintain skin barrier integrity under environmental stress. These findings confirm Superoxide Dismutase as a highly effective biotechnology-derived antioxidant active for anti-ageing, photoprotection, barrier repair, and daily skin defense formulations.^[1]

References

- [1] Nurfitriyawatie, Nurfitriyawatie, et al. "Antiphotoreaging effects of liposomal encapsulated superoxide dismutase extract of *Bacillus altitudinis* on ultraviolet-A-irradiated New Zealand rabbits' back skin." *Journal of Applied Pharmaceutical Science* 13.7 (2023): 144-150.

BIOACTIVES

Our portfolio of biotechnology-driven functional actives combines scientific innovation with proven performance to address diverse skin and hair care concerns. Carefully selected for their efficacy, these high-performance ingredients deliver targeted solutions for hydration, brightening, anti-ageing, soothing, barrier repair, and overall skin wellness.



Scan Here for
Our Product Range

Vegan Collagen 6D

Vegan Collagen 6D is an advanced bio-fermented collagen complex engineered to authentically replicate the skin's natural collagen architecture. Powered by six biomimetic collagen types (Type I, III, IV, V, VII & XVII), it reinforces the epidermis, dermis, and dermal-epidermal junction (DEJ) to restore structural integrity and youthful skin function. By replenishing collagen lost through ageing and environmental stress, it improves skin firmness, elasticity, barrier function, and overall skin resilience.

As a clinically proven bio-fermented active, **Vegan Collagen 6D** combines advanced biotechnology with biomimetic collagen science to strengthen the skin matrix, enhance epidermal thickness, reduce trans epidermal water loss, improve elasticity, and visibly diminish wrinkles. Its high purity, excellent formulation compatibility, and biomimetic collagen ratio make it an ideal next-generation active for advanced anti-ageing and skin repair formulations.



Key Claims



Six-Type
Biomimetic
Collagen Technology



Anti-Wrinkle
& Firming



Skin Barrier
Strengthening



Improves
Skin Elasticity



Enhances
Epidermal
Thickness



Deep Skin Repair
& Regeneration

Product Details



INCI Name

Sh-Polypeptide-47, Sh-Polypeptide-123, Deca (Sh-Polypeptide-179), Deca (Sh-Polypeptide-180), Deca (Sh-Polypeptide-175), Hepta (Tripeptide-29) Sh-Polypeptide-165, Hexa (Tripeptide-29), Water, Glycerine, 1,2-Hexanediol



Key Composition

Bio-fermented Type I, III, IV, V, VII & XVII Collagen



Recommended Dosage

0.5-10%



Origin

Bio-fermentation



Appearance

Colorless to light-yellow transparent liquid

Applications

- Anti-Ageing Formulations
- Dermal Repair Treatments
- Barrier-Strengthening Serums
- Firming & Lifting Creams
- Hydrating Facial Mists
- Premium Skin Rejuvenation Products

Efficacy Highlights



Vegan Collagen 6D demonstrated exceptional skin-repairing, firming, and anti-ageing performance through its unique six-type biomimetic collagen technology. Clinical studies showed a **21.78% increase in epidermal thickness** after 28 days, reinforcing skin structure and resilience. It **reduced trans epidermal water loss (TEWL) by 29.46%**, strengthening the skin barrier and improving moisture retention. Ex vivo analysis further demonstrated a remarkable **280% increase in collagen fiber density**, confirming significant wrinkle-repair activity and restoration of the dermal matrix.



Additionally, clinical evaluation showed a **4.95% reduction in wrinkle area**, while improving skin elasticity and firmness for visibly smoother, firmer, and younger-looking skin. The biomimetic collagen composition closely mimics the natural collagen distribution of healthy skin, delivering comprehensive structural support across the epidermis, dermis, and dermal-epidermal junction for long-lasting skin regeneration and rejuvenation.

GlowZenGlutta™

GlowZenGlutta™ is a high-purity Glutathione ingredient produced through precision microbial fermentation and enzymatic synthesis to deliver superior antioxidant protection and skin-brightening performance. There are three advanced variants of **GlowZenGlutta™** i.e. **Reduced, Oxidized, and --Liposomal Glutathione** it supports cellular detoxification, neutralizes oxidative stress, regulates melanin synthesis, and promotes radiant, even toned skin.

As a clinically proven biotechnology ingredient, **GlowZenGlutta™** combines advanced fermentation technology with superior antioxidant science to protect skin from oxidative damage, reduce hyperpigmentation, enhance skin radiance, and support healthy skin ageing. Its exceptional purity, multiple formulation-ready variants, and excellent compatibility make it an ideal multifunctional active for next-generation brightening, anti-ageing, and dermocosmetic formulations.



Key Claims



Advanced
Antioxidant
Protection



Skin Brightening
& Radiance
Enhancement



Melanin
Regulation



Anti-Ageing &
Cellular Defense



Cellular
Detoxification



Multiple Bioavailable
Glutathione Variants

Product Details



INCI Name Glutathione



Recommended Dosage 0.1-2.0%



Key Composition L-Glutathione Reduced,
L-Glutathione Oxidized &
Liposomal Glutathione



Appearance White to Off-White
Crystalline Powder

Applications

- Skin Brightening Serums & Creams
- Hyperpigmentation & Spot-Correcting Treatments
- Anti-Ageing Formulations
- After-Sun Recovery Products
- Pre & Post-Procedure Dermatological Care
- Blemish Lotions & Spot-Clearing Gels

Efficacy Highlights



L-Glutathione Reduced demonstrated dose-dependent skin-brightening efficacy by reducing melanin synthesis by up to approximately 43% and inhibiting tyrosinase activity by approximately 35% in α -MSH-stimulated B16F10 cells. At 1 mg/mL, it outperformed Kojic Acid in melanin reduction while providing comparable tyrosinase inhibition, confirming its potent antioxidant and depigmenting activity.

L-Ergothioneine

L-Ergothioneine is a naturally occurring amino acid produced through precision biofermentation, offering exceptional antioxidant protection and cellular defense. As a highly stable, sulfur-containing antioxidant, it effectively neutralizes reactive oxygen species (ROS), helping protect skin cells from UV-induced oxidative stress while preserving cellular integrity.

EGT also supports collagen preservation and skin barrier function by promoting Type I collagen synthesis and reducing pro-inflammatory cytokines. Its excellent stability, high bioavailability, and compatibility with sensitive skin make it an ideal active for anti-ageing, brightening, and environmental protection formulations.



Key Claims



Potent
Antioxidant



Anti-Ageing



Anti-Inflammatory



UV &
Environmental



Collagen
Support



Skin Barrier
Protection

Product Details



INCI Name Ergothioneine



Recommended Dosage 0.1-1%



Content ≥99%



Appearance White to off-white powder

Applications

- Glow Enhancing Lotions
- Skin Uniforming Mists
- Spot Correcting Creams

Efficacy Highlights



In vitro studies demonstrated that **L-Ergothioneine (EGT)** significantly suppressed **UVA-induced reactive oxygen species (ROS) production** in human skin fibroblasts in a concentration-dependent manner, confirming its potent antioxidant activity and ability to protect skin cells from oxidative stress. [1]



EGT also **enhanced Type I procollagen expression by up to 2.54-fold at 0.5 μ M**, supporting collagen synthesis and improved skin firmness. In addition, EGT **significantly reduced the expression of the pro-inflammatory cytokines TNF- α and IL-1 β** in LPS-stimulated keratinocytes, demonstrating strong anti-inflammatory activity and protection against inflammation-induced skin damage. [1,2]

References:

- [1] Hseu, You-Cheng, et al. "The antiaging activity of Ergothioneine in UVA-irradiated human dermal fibroblasts via the inhibition of the AP-1 pathway and the activation of Nrf2-mediated antioxidant genes." *Oxidative Medicine and Cellular Longevity* 2020.1 (2020): 2576823.
- [2] Li, Ang, et al. "Ergothioneine attenuates psoriasis symptoms through modulation of M1/M2 macrophage polarisation via the NF- κ B/JAK/STAT3 pathway." *Frontiers in Pharmacology* 16 (2025): 1521743.

Squalane

Squalane is a biotechnology-derived emollient produced from **sugarcane** through **advanced yeast fermentation**, followed by hydrogenation of squalene, resulting in a highly stable, high-purity lipid that closely resembles the natural lipids present in human sebum. It rapidly absorbs into the skin, reinforcing the skin barrier, reducing moisture loss, and delivering long-lasting hydration with a lightweight, non-greasy feel.

With excellent oxidative stability, exceptional spreadability, and a colourless, odourless profile, Squalane improves skin softness, smoothness, and elasticity while enhancing overall skin comfort. Its biomimetic nature and excellent skin compatibility make it suitable for premium **skincare, haircare, and formulations** designed for sensitive, dry, and acne-prone skin.



Key Claims



Deep Hydration



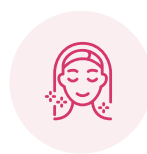
Skin Barrier Support



Lightweight Emolliency



Rapid Absorption & Non-Greasy Feel



Anti-Ageing



Sensitive Skin Compatible



Biomimetic Lipid Technology

Product Details



INCI Name Squalane



Recommended Dosage 0.1-50%



Purity ≥97%



Appearance Colourless, clear viscous liquid

Applications

- Daily Care Lotions & Intensive Moisturizing Creams
- Repair & Recovery Treatment Masks
- Anti-Ageing Creams
- Sensitive & Acne-Prone Skin Formulations
- Hair care formulations for overall protection and softness
- Hydrating facial waters and barrier-boosting essences

Efficacy Highlights



In vivo moisturizing studies using a **zebrafish tail injury model** demonstrated that **Squalane significantly improved skin hydration and barrier recovery** compared with the untreated control. Treatment resulted in **up to 99% reduction in tail area damage**, demonstrating superior moisturizing performance and enhanced skin repair.



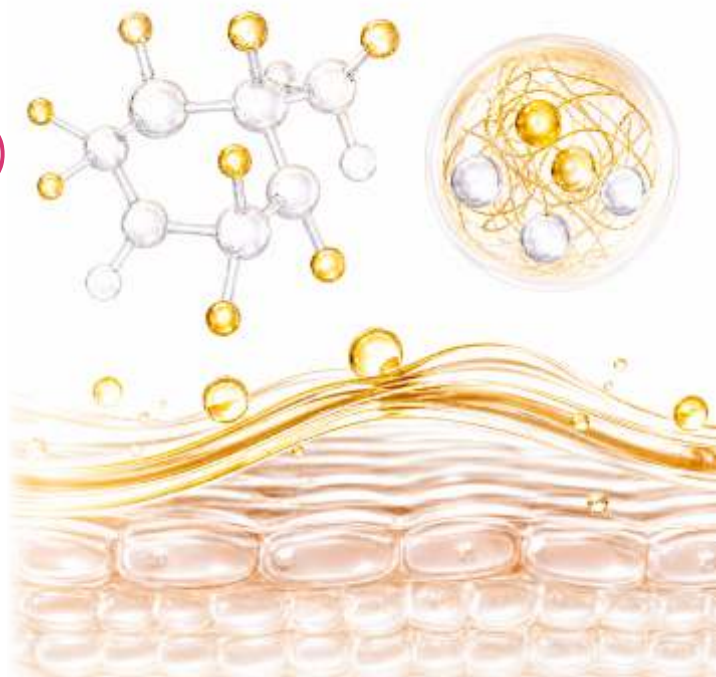
The study also showed a **30% reduction in tail area damage** during the early stages of treatment, confirming the rapid onset of Squalane's moisturizing and protective effects while strengthening the skin barrier and improving moisture retention.

Pro-Xylane

(Hydroxypropyl Tetrahydropyrantriol)

Pro-Xylane (Hydroxypropyl Tetrahydropyrantriol) is a biotech-engineered active derived from plant-based xylose that helps restore the skin's extracellular matrix (ECM). Produced through advanced biotechnological processes, it stimulates the synthesis of glycosaminoglycans (GAGs) and proteoglycans, improving skin hydration, elasticity, and dermal density.

By promoting collagen VII production, **Pro-Xylane** strengthens the dermal-epidermal junction (DEJ), enhances skin firmness, and reinforces structural integrity. Its biomimetic mechanism supports long-term skin resilience, making it an ideal active for advanced anti-ageing and skin-restructuring formulations.



Key Claims



Product Details

	INCI Name	Hydroxypropyl Tetrahydropyrantriol
	Recommended Dosage	1-10%
	Appearance	White to off-white powder or clear solution

Applications

- Anti-Ageing & Firming Serums
- Lifting & Contour-Defining Creams
- Moisturizing & Smoothing Formulations
- Skin-Restructuring & Repair Treatments

Efficacy Highlights

- Clinical studies showed that **Pro-Xylane** stimulates **GAG** and **proteoglycan** synthesis, improving skin hydration, firmness, and extracellular matrix integrity. The **formulation** visibly reduced wrinkles and enhanced skin firmness after **28 days**.
- Pro-Xylane also promoted **Collagen VII synthesis** and demonstrated **68.5% hyaluronidase inhibition** at a **10% concentration**, supporting improved skin elasticity, hydration, and dermal-epidermal junction (DEJ) integrity.

Ectoin

Ectoin is an advanced biotechnology-derived active produced through probiotic fermentation inspired by the natural stress-protection systems of extremophilic microorganisms. Powered by Ectoin, a natural extremolyte, it safeguards skin cells against environmental, oxidative, and inflammatory stress while preserving cellular hydration and structural integrity. By stabilizing proteins, membranes, and DNA, Ectoin reinforces the skin barrier, reduces trans epidermal water loss (TEWL), and restores long-lasting skin comfort and resilience.

As a clinically proven biotechnology ingredient, Ectoin combines advanced extremophile science with superior cellular protection to defend the skin against environmental aggressors, improve barrier integrity, reduce irritation, and maintain optimal hydration. Its exceptional stability, broad formulation compatibility, and multifunctional performance make it an ideal active for next-generation skin repair, anti-ageing, and sensitive skin formulations.



Key Claims



Cellular Stress Protection



Skin Barrier Repair & Strengthening



Deep Hydration & Moisture Retention



Anti-Inflammatory & Soothing



Antioxidant & Anti-Ageing Protection



Environmental Stress Defense

Product Details



INCI Name Ectoin



Recommended Dosage 0.3-2%



Key Composition High Purity Ectoin (99%)



Origin Probiotic Fermentation (Extremophile Biotechnology)



Appearance White Powder

Applications

- Age-Defying Serums
- Hydrating Mists
- Post-Procedure Treatments
- Spot-Correcting Gels
- Replenishing Lotions
- Anti-Wrinkle & Firming Formulations

Efficacy Highlights



Ectoin delivers clinically proven skin protection through advanced extremophile biotechnology. In zebrafish studies, 2% Ectoin reduced neutrophil aggregation by 24%, while 0.78% achieved a 10% reduction, demonstrating potent soothing and anti-inflammatory activity. Barrier repair studies showed 63% inhibition of skin barrier permeability at 0.5% Ectoin and 59% at 3%, confirming superior barrier restoration and hydration. Additionally, 0.5% Ectoin reduced reactive oxygen species (ROS) by 14%, providing antioxidant protection against oxidative stress. Together, these findings highlight Ectoin's ability to strengthen the skin barrier, maintain hydration, reduce inflammation, and improve skin resilience.

Tetrahydrocurcumin (THC)

Tetrahydrocurcumin (THC) is a biotechnology-derived active produced through the biotransformation of curcumin into a highly bioavailable, colourless molecule with enhanced skin compatibility. It delivers potent antioxidant and anti-inflammatory benefits while overcoming the formulation limitations associated with curcumin's natural colour.

THC helps protect the skin from oxidative stress and UV-induced damage by neutralizing reactive oxygen species (ROS), reducing inflammation, and inhibiting tyrosinase activity to minimize melanin synthesis. It also supports collagen preservation by reducing matrix metalloproteinase-1 (MMP-1) expression, making it an ideal multifunctional ingredient for brightening, soothing, and anti-ageing skincare formulations.



Key Claims



Skin
Brightening



Anti-Ageing



Anti-Inflammatory



Antioxidant
Protection



UV Protection



Collagen
Preservation

Product Details



INCI Name Tetrahydrocurcumin



Recommended Dosage 0.1-1%



Content 98%



Appearance White to slightly yellow powder

Applications

- Anti-Ageing Creams & Serums
- Brightening Products
- Complexion-Correcting Creams
- Soothing & Sensitive Skin Formulations
- Sun Care & After-Sun Repair Products

Efficacy Highlights



In vitro studies demonstrated that **Tetrahydrocurcumin (THC)** significantly reduced **nitric oxide (NO) levels** in cultured cells compared with the model control, indicating potent anti-inflammatory activity and excellent soothing potential.



At just **0.0031%**, THC **reduced tyrosinase activity by approximately 40%** compared with the blank control, demonstrating skin-brightening efficacy comparable to the positive control. Additionally, at **0.0008%**, THC **reduced MMP-1 gene expression by approximately 52%** compared with the model control and showed **approximately 16% greater inhibition** than the positive control, confirming its potent anti-ageing activity through collagen preservation.

N-Acetyl Glucosamine (NAG)

N-Acetyl Glucosamine (NAG) is a naturally occurring amino sugar and a biological precursor of Hyaluronic Acid, the key polymer responsible for maintaining skin hydration and elasticity. Produced through advanced biotechnological processes, NAG supports the skin's natural renewal process by enhancing hydration, improving skin texture, and promoting a brighter, more even-looking complexion.

As a bio-derived multifunctional active, NAG helps reduce excess melanin formation while supporting the skin's own Hyaluronic Acid synthesis. Its gentle, non-acidic mechanism makes it an excellent choice for sensitive skin, delivering visible brightening, improved skin clarity, and enhanced barrier function without causing irritation.



Key Claims



Brightening & Radiance Enhancement



Deep Hydration



Skin Tone Correction



Barrier Repair



Gentle Exfoliation



Anti-Inflammatory & Skin Soothing

Product Details

	INCI Name	N-Acetyl Glucosamine
	Recommended Dosage	1-5%
	Appearance	White crystalline powder

Applications

- Brightening & Radiance Boosting Serums
- Hydrating & Barrier Repair Moisturizers
- Sensitive Skin & Post-Procedure Formulations
- Gentle Resurfacing Products
- Daily Tone-Correction & Anti-Spot Treatments

Efficacy Highlights



In efficacy studies, topical application of N-Acetyl Glucosamine demonstrated a significant reduction in skin pigmentation and visible improvement in overall skin tone after eight weeks of use. Polarized dermoscopy images confirmed a noticeable decrease in hyperpigmentation. [1]



In **in-vitro** studies, both N-Acetyl Glucosamine and NAG-loaded nanoparticles significantly reduced the expression of inflammatory cytokines **IL-6** and **IL-8** in TNF- α -stimulated skin cells. The reduction in these inflammatory markers indicates excellent soothing and anti-inflammatory properties, making NAG an ideal active ingredient for sensitive, irritated, and post-procedure skincare formulations. [2]

References:

- [1] Aliasgharloo, Lavin, et al. "Nanostructured lipid carrier for topical application of N-acetyl glucosamine." **Advanced Pharmaceutical Bulletin**. 6(4) (2016): 581-589.
- [2] Mariano, Alessia, et al. "The formulation of the N-Acetylglucosamine as nanoparticles increases its anti-inflammatory activities: an in vitro study." **Bioengineering**. 10(3) (2023): 343.

Pyrroloquinoline Quinone (PQQ)

Pyrroloquinoline Quinone (PQQ) is a biotech-derived redox cofactor produced through advanced fermentation technology. Recognized for its role in supporting mitochondrial function, PQQ helps maintain cellular energy production while protecting skin cells from oxidative stress caused by UV exposure and environmental pollutants.

As a multifunctional antioxidant, PQQ promotes skin rejuvenation by preserving mitochondrial health, improving cellular resilience, and reducing the visible signs of premature ageing. Its excellent stability and water solubility make it an ideal active for advanced anti-ageing, brightening, and skin-repair formulations.



Key Claims



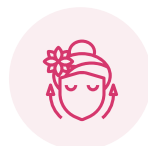
Mitochondrial
Protection



Cellular
Energy Support



Anti-Oxidant
Defense



Anti-Ageing



Skin Barrier
Support



Skin
Rejuvenation

Product Details



INCI Name

Pyrroloquinoline Quinone
Disodium Salt



Recommended Dosage

0.01–0.1%



Appearance

Reddish-orange to dark
red powder

Applications

- Anti-Ageing Creams & Serums
- Skin Rejuvenation Treatments
- Post-Procedure Skincare
- Moisturizing & Hydrating Gels
- Brightening Creams
- Wrinkle & Fine Line Reduction Formulations

Efficacy Highlights



In vitro studies demonstrated that PQQ restored intracellular ATP levels in oxidatively stressed skin cells, supporting mitochondrial function and cellular energy metabolism. PQQ also significantly reduced mitochondrial damage and enhanced SIRT1 protein expression, indicating improved cellular repair and resistance to oxidative stress. These findings highlight PQQ's ability to protect skin cells from oxidative damage, support mitochondrial health, and promote a more resilient, youthful-looking complexion. [1]

References:

[1] Gao, Ying, et al. "Pyrroloquinoline quinone (PQQ) protects mitochondrial function of HEI-OC1 cells under premature senescence." npj Aging 8.1 (2022): 3.

Phosphatidylcholine (PC)

Phosphatidylcholine (PC) is a biomimetic phospholipid that closely resembles the natural phospholipids found in the skin barrier. Produced through advanced biotechnological processes, PC replenishes essential skin lipids, reinforces barrier integrity, and enhances hydration for healthier, more resilient skin.

Recognized as a multifunctional cosmetic active and delivery enhancer, Phosphatidylcholine improves the penetration and bioavailability of active ingredients while supporting skin repair and moisture retention. Its excellent biocompatibility makes it ideal for sensitive skin formulations, advanced delivery systems, and next-generation dermo-cosmetic products.



Key Claims



Barrier Repair &
Skin Protection



Enhanced
Active Delivery



Deep
Hydration



Skin
Revitalization



Biomimetic
Lipid Technology



Sensitive Skin
Compatible

Product Details



INCI Name

Phosphatidylcholine



Recommended Dosage

0.5–5% (up to 10% in
advanced delivery systems)



Appearance

Pale yellow to amber
viscous liquid

Applications

- Anti-Ageing & Hydration Serums
- Barrier Repair & Sensitive Skin Formulations
- Liposomal & Nano Delivery Systems
- Post-Procedure & Recovery Skincare
- Firming & Revitalizing Creams

Efficacy Highlights



Ex-vivo studies demonstrated that **Phosphatidylcholine (PC) vesicles achieved approximately 200 µg/cm² cumulative caffeine permeation within 24 hours**, outperforming Hydrogenated PC, Sorbitan Oleate, and the untreated control, confirming superior delivery of bioactive ingredients. [1] Barrier protection studies showed that continuous application of **Phosphatidylcholine (S75 & LPC80)** for 4 days significantly reduced **Transepidermal Water Loss (TEWL)** and improved **stratum corneum hydration** reinforcing the skin barrier and enhancing moisture retention. [2]

References:

- [1] Schneider, M., Stracke, F., Hansen, S., & Schaefer, U. F. "Liposomal and nanoparticle-based dermal and transdermal drug delivery systems: Influence on skin penetration." **Journal of Controlled Release**. 242 (2016): 1–15.
- [2] Van Hoogevest, P., & Fahr, A. "Phospholipids in Cosmetic Carriers." **Cosmetics**. 1(4) (2014): 138–158.

Phosphatidylserine (PS)

Phosphatidylserine (PS) is a naturally occurring phospholipid found in all living cell membranes, where it plays a vital role in cellular communication, membrane stability, and stress response. Produced through advanced biotechnological processes, PS helps protect the skin against environmental and oxidative stress while supporting collagen production, improving skin firmness, and maintaining a healthy skin barrier.

Recognized as a multifunctional bioactive ingredient, Phosphatidylserine promotes skin renewal, reduces visible signs of ageing, and enhances skin resilience. Its excellent biocompatibility and photoprotective properties make it an ideal ingredient for anti-ageing, sensitive skin, and dermo-cosmetic formulations.



Key Claims



Anti-Ageing
& Firmness



Photoprotection



Collagen
Support



Barrier
Repair



Anti-Inflammatory
Activity



Hydration &
Skin Resilience

Product Details



INCI Name Phosphatidylserine



Recommended Dosage 0.5–3%



Appearance Pale beige to yellowish
viscous lipid or powder

Applications

- Anti-Ageing & Firming Creams and Serums
- Photoprotective & After-Sun Formulations
- Hydrating & Replenishing Mists
- Barrier Repair & Recovery Skincare
- Stress-Defence & Anti-Pollution Products
- Biotech or Dermo-Cosmetic Night Repair Lines

Efficacy Highlights



UV-induced skin ageing studies demonstrated that **Phosphatidylserine (PS) significantly increased procollagen synthesis while reducing MMP-1 expression**, helping preserve collagen integrity and protect the skin from photoageing. [1]



Ex-vivo studies in both **young and aged skin models** further confirmed that PS enhanced collagen production and suppressed collagen degradation following UV exposure, promoting improved skin repair and resilience. [1]

References:

[1] Oh, Sayuri, et al. "Phosphatidylserine prevents UV-induced decrease of type I procollagen and increase of MMP-1 in dermal fibroblasts and human skin in vivo." **Journal of Lipid Research**. 46 (2005): 265–274.

BOTANICALS

Harnessing the power of nature through modern extraction technologies, our botanical actives are rich in naturally occurring phytochemicals, antioxidants, and functional bioactives. Developed for contemporary cosmetic formulations, they deliver multifunctional benefits while combining botanical purity with scientific precision.



Scan Here for
Our Product Range

Ashwagandha Extract

Ashwagandha Extract is a botanical active derived from the whole plant of ***Withania somnifera***, renowned for its adaptogenic, antioxidant, and skin-revitalizing properties. Rich in withanolides, amino acids, and phytonutrients, it helps protect the skin from environmental stress while supporting collagen synthesis, strengthening the skin barrier, and improving overall skin resilience.

Its bioactive compounds help maintain skin homeostasis by reducing oxidative stress, enhancing barrier function, and promoting a calm, healthy-looking complexion. Suitable for anti-aging, stress-defence, and skin-rejuvenation formulations, Ashwagandha Extract helps restore vitality and improve overall skin appearance.



KEY CLAIMS



**Skin
Resilience**



**Antioxidant
Defence**



**Skin
Rejuvenation**



**Barrier
Support**



**Collagen
Support**



**Skin
Vitality**



PRODUCT DETAILS



Botanical Name

Withania somnifera



Plant Part Used

Whole Plant



INCI Name

Withania Somnifera Extract



Recommended Dosage

1-3%



Appearance

Light brown to brown powder



APPLICATIONS



Barrier Repair Formulations



Skin Rejuvenation Products



Anti-Aging Creams &
Serums



Skin Defence Products



Wellness & Adaptogenic
Skincare

CERTIFICATIONS



**ISO
Certified**



**GMP
Certified**



**HALAL
Certified**



**HACCP
Certified**



**FSSAI
Registered**



**Star-K Kosher
Certified**

Turmeric Extract

Turmeric Extract is an **indigenous botanical active derived from the rhizomes of *Curcuma longa***, naturally enriched with high levels of curcuminoids to deliver advanced skin-brightening, soothing, and antioxidant benefits. **Powered by bioactive curcuminoids**, it helps regulate melanin production, reduce visible inflammation, protect against oxidative stress, and restore a brighter, more even-toned complexion. Through its potent botanical profile, Turmeric Extract strengthens the skin barrier while promoting healthier, calmer, and more resilient skin.

As a naturally effective botanical ingredient, Turmeric Extract combines concentrated curcuminoid technology with superior antioxidant and anti-inflammatory activity to reduce hyperpigmentation, soothe irritated skin, improve skin radiance, and defend against environmental aggressors. Its excellent formulation compatibility and multifunctional performance make it an ideal active for next-generation brightening, anti-aging, and skin-calming formulations.



KEY CLAIMS



Skin Brightening
Radiant
Enhancement



Anti-Inflammatory
Protection



Spot Reduction &
Even Skin Tone



Antioxidant
Defence



Skin Barrier
Support



Environmental
Stress Protection



PRODUCT DETAILS



Botanical Name

Curcuma longa



Plant Part Used

Rhizome



INCI Name

Withania Somnifera Extract



Recommended Dosage

0.3-0.6%



Appearance

Yellowish to yellowish
orange colour



APPLICATIONS



Skin Brightening Serums & Creams



Anti-Inflammatory Skincare



Anti-Aging Formulations



Spot-Correcting Treatments



Radiant Skin Tone



Clarifying & Barrier-Support
Products

CERTIFICATIONS



ISO
Certified



GMP
Certified



HALAL
Certified



HACCP
Certified



FSSAI
Registered



Star-K Kosher
Certified

Aloe Vera Extract

Aloe Vera Extract is a botanical active derived from the leaves of *Aloe barbadensis Miller*, renowned for its exceptional hydrating, soothing, and skin-repairing properties. Rich in polysaccharides, amino acids, vitamins, and minerals, it helps replenish moisture, calm irritated skin, and support the skin's natural barrier function.

Its bioactive constituents promote epidermal renewal, improve skin elasticity, and assist in tissue repair while forming a protective moisture-retaining film on the skin. Suitable for all skin types, Aloe Vera Extract is widely used in formulations designed for hydration, sensitive skin, after-sun care, and overall skin wellness.



KEY CLAIMS



Deep Hydration



Skin Soothing



Barrier Support



Skin Repair



After-Sun Care



Sensitive Skin Friendly



PRODUCT DETAILS



Botanical Name

Aloe barbadensis Miller



Plant Part Used

Leaves



INCI Name

Aloe Barbadensis Leaf Extract



Recommended Dosage

2–10%



Appearance

Off-white to cream powder



APPLICATIONS



Hydrating Skincare Products



Soothing & Sensitive Skin Formulations



After-Sun Care Products



Moisturizers & Body Lotions



Barrier Repair Creams

CERTIFICATIONS



ISO Certified



GMP Certified



HALAL Certified



HACCP Certified



FSSAI Registered



Star-K Kosher Certified

Citrus Extract

Citrus Extract is a botanical active derived from the peel and fruit of *Citrus sinensis* L., valued for its natural richness in Vitamin C, bioflavonoids, and fruit acids. It helps protect the skin from oxidative stress while enhancing radiance, improving skin tone, and promoting a smoother, more youthful-looking complexion.

Its antioxidant-rich composition supports collagen production, encourages gentle skin renewal, and helps refine skin texture. Suitable for brightening, exfoliating, and anti-aging formulations, Citrus Extract leaves the skin looking refreshed, luminous, and revitalized.



KEY CLAIMS



**Skin
Brightening**



**Refined Pores
& Texture**



**Antioxidant
Protection**



**Skin
Renewal**



**Collagen
Support**



**Radiant
Skin Tone**



PRODUCT DETAILS



Botanical Name

Citrus sinensis L.



Plant Part Used

Peel & Fruit



INCI Name

Citrus Sinensis Peel Extract



Recommended Dosage

1-10%



Appearance

Creamish powder



APPLICATIONS



Brightening Formulations



Rejuvenating Skincare Products



Gentle Exfoliating Treatments



Anti-Aging Creams & Serums



Pore Refinement

CERTIFICATIONS



**ISO
Certified**



**GMP
Certified**



**HALAL
Certified**



**HACCP
Certified**



**FSSAI
Registered**



**Star-K Kosher
Certified**

Green Coffee Extract

Green Coffee Extract is a botanical active derived from the beans of **Coffea arabica**, valued for its rich content of caffeine, chlorogenic acid, and polyphenols. It helps energize the skin by supporting microcirculation, protecting against oxidative stress, and promoting a firmer, more revitalized appearance.

Its natural bioactive compounds help reduce puffiness, support collagen preservation, and defend the skin against environmental damage. Suitable for anti-fatigue, firming, and detoxifying skincare formulations, Green Coffee Extract leaves the skin looking refreshed, toned, and rejuvenated.



KEY CLAIMS



Energizing



Firming &
Toning



Detoxifying



Anti-Fatigue



Collagen
Support



Antioxidant
Defence



PRODUCT DETAILS



Botanical Name

Coffea arabica



Plant Part Used

Bean



INCI Name

Coffea Arabica Seed Powder



Recommended Dosage

1.5–3%



Appearance

Pale yellow to brown powder



APPLICATIONS



Anti-Fatigue Skincare Products



Firming Creams & Serums



Detoxifying Formulations



Revitalizing & Toning Skincare

CERTIFICATIONS



ISO
Certified



GMP
Certified



HALAL
Certified



HACCP
Certified



FSSAI
Registered



Star-K Kosher
Certified

Papaya Leaf Extract

Papaya Leaf Extract is a botanical active derived from the leaves of **Carica papaya**, valued for its natural enzymes, carotenoids, vitamins, and antioxidant compounds. It supports gentle skin renewal by promoting the removal of dead skin cells, improving skin texture, and revealing a smoother, brighter complexion.

Its enzyme-rich composition helps encourage healthy cellular turnover while protecting the skin against oxidative stress and environmental damage. Suitable for exfoliating, brightening, and skin-renewal formulations, Papaya Leaf Extract promotes clearer, healthier-looking, and more radiant skin.



KEY CLAIMS



Gentle
Exfoliation



Skin
Renewal



Texture
Refinement



Radiant
Skin Tone



Antioxidant
Protection



Skin
Brightening



PRODUCT DETAILS



Botanical Name

Carica papaya



Plant Part Used

Leaves



INCI Name

Carica Papaya Leaf Extract



Recommended Dosage

1-3%



Appearance

Light brown to brown powder



APPLICATIONS



Exfoliating Skincare Products



Brightening Formulations



Skin Renewal Treatments



Texture Refining Creams &
Serums



Radiance-Boosting Products

CERTIFICATIONS



ISO
Certified



GMP
Certified



HALAL
Certified



HACCP
Certified



FSSAI
Registered



Star-K Kosher
Certified

Pomegranate Extract

Pomegranate Extract is a botanical active derived from the fruit of *Punica granatum*, valued for its rich content of ellagic acid, punicalagins, and polyphenols. It provides powerful antioxidant protection by helping defend the skin against oxidative stress while supporting collagen synthesis, improving elasticity, and promoting a firmer, more youthful-looking complexion.

Its bioactive compounds help reduce inflammation, protect against UV-induced skin damage, and encourage healthy cellular renewal. Suitable for anti-aging, firming, and antioxidant skincare formulations, Pomegranate Extract helps maintain radiant, resilient, and healthy-looking skin.



KEY CLAIMS



Skin Firmness



Radiant Skin Tone



UV Protection



Antioxidant Protection



Collagen Support



Anti-Aging



PRODUCT DETAILS



Botanical Name

Punica granatum



Plant Part Used

Fruit



INCI Name

Punica Granatum Fruit Extract



Recommended Dosage

0.8–1.5%



Appearance

Brown to dark brown powder



APPLICATIONS



Anti-Aging Skincare Products



Firming Creams & Serums



Antioxidant Skincare Formulations



UV Protection Products



Radiance-Enhancing Treatments

CERTIFICATIONS



ISO Certified



GMP Certified



HALAL Certified



HACCP Certified



FSSAI Registered



Star-K Kosher Certified

Green Tea Extract

Green Tea Extract is a botanical active derived from the leaves of ***Camellia sinensis***, valued for its high concentration of catechins, epigallocatechin gallate (EGCG), and polyphenols. It provides powerful antioxidant protection by helping defend the skin against oxidative stress, environmental pollutants, and UV-induced damage while promoting a healthier, more balanced complexion.

Its bioactive compounds help soothe irritation, regulate excess sebum, and reinforce the skin's natural barrier. Suitable for anti-aging, purifying, and pollution-defence formulations, Green Tea Extract supports clearer, calmer, and revitalized skin.



KEY CLAIMS



Skin Calming



Pollution
Defence



Purifying



Sebum
Balance



Anti-Aging
Support



Antioxidant



PRODUCT DETAILS



Botanical Name

Camellia sinensis



Plant Part Used

Leaves



INCI Name

Camellia Sinensis Leaf Extract



Recommended Dosage

0.3–1.2%



Appearance

Yellowish brown to brown powder



APPLICATIONS



Anti-Fatigue Skincare Products



Purifying Formulations



Pollution-Defence Skincare



Sebum-Balancing Products



Soothing & Sensitive Skin
Formulations'

CERTIFICATIONS



ISO
Certified



GMP
Certified



HALAL
Certified



HACCP
Certified



FSSAI
Registered



Star-K Kosher
Certified

Rosemary Leaf Extract

Rosemary Leaf Extract is a botanical active derived from the leaves of *Rosmarinus officinalis*, valued for its **rich content of phenolic diterpenes, including carnosic acid and rosmarinic acid**. It provides powerful antioxidant protection by defending the skin against oxidative stress while supporting healthy microcirculation for revitalized skin.

Its naturally occurring bioactive compounds help purify the skin, improve tone and texture, and promote a firmer, healthier-looking complexion. Suitable for antioxidant, purifying, firming, and skin-revitalizing formulations, Rosemary Leaf Extract also enhances formulation stability by acting as a natural preservative booster.



KEY CLAIMS



Skin Purification



Firming Effect



Antioxidant



Skin Revitalization



Improved Skin Tone



Detoxifying Care



PRODUCT DETAILS



Botanical Name

Rosmarinus officinalis L.



Plant Part Used

Leaves



INCI Name

Rosmarinus Officinalis Leaf Extract



Recommended Dosage

0.2–0.5%



Appearance

Light yellow powder



APPLICATIONS



Purifying Cleansers & Treatments



Firming Creams & Serums



Detoxifying Skincare Formulations



Scalp Care Products



Skin Revitalizing Formulations



Antioxidant Skincare Products

CERTIFICATIONS



ISO Certified



GMP Certified



HALAL Certified



HACCP Certified



FSSAI Registered



Star-K Kosher Certified

GROUP METEORIC



Meteoric Biopharmaceuticals boast global headquarter in India, with strategic presence in the USA and Vietnam. Our advanced R&D centers, comprehensive regulatory accreditations, and robust portfolio of patents and trademarks reflect our dedication to pioneering research and quality



Meteoric Biopharmaceuticals Animal Healthcare Division offers high-quality enzymes, probiotics, and nutraceuticals for dairy, poultry, and aquaculture. Focused on enhancing animal health, we provide reliable veterinary feed supplements and innovative enzymatic solutions for better efficacy



Meteoric Naturals Pvt. Ltd. specializes in standardized herbal extracts for biomedicines and cosmetics, emphasizing active metabolites and 100% certified purity. With 28 GMP-certified herbal solutions, we aim to expand R&D collaborations for innovative phytoextracts from indigenous plants



Established in 2019 as a CSR partner of Meteoric, VISHALWIN Foundation focuses on two key initiatives: VishalCARE, providing rehabilitation for children with neurodiversity, and VishalSAVE, enhancing road safety through ambulance installations and emergency response systems. Our mission is to foster inclusion and support for vulnerable communities across India



[illegible]

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