

Innovative Ingredients

inspired
by Nature



BotanicalsPlus



JEEN International, a Vantage™ Company

Vantage and Jeen International joined forces in March 2022 to bring your sustainable cosmetics to the forefront with the best natural ingredients – from functional innovations from Jeen to botanical extracts & actives from Botanicals Plus.



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For more information, please visit our websites:

www.jeen.com

www.botanicalsplus.com

Enabling Tomorrow's Solutions Today

JEEN International is committed to sustainable and socially responsible practices to minimize our environmental impact and empower people, for a better future.

To ensure the highest quality and sustainability standards for our portfolio, we align our products' with the industry's most relevant certifications.



ISO 9001:2015
Certified



FDA
Registered



USDA
Certified Organic



RSPO
Mass Balance
Certified

4-0597-15-100-00



HALAL
Certified



JEESPERSE®

Easy-to-use Emulsifiers

A patented, groundbreaking technology series that completely reinvents the emulsification process. Use JEESPERSE® to save time, money but most importantly - to formulate sustainably. Simply add JEESPERSE® to room temperature water, mix, and you're done!



Handling

Allows emulsion manufacturing at lower temperatures – resulting in faster batch-cycle time



Composition

Contains thickeners, solid waxes, emulsifiers and functional ingredients in a ready-to-use powder format



Sustainability

Reduces energy usage and processing time, resulting in significant reductions in your carbon footprint

JEESPERSE® CPW-S

INCI: Helianthus Annuus (Sunflower) Seed Wax, Sodium Polyacrylate

COLD PROCESS WAX

Jeesperse® CPW-S is a patented, energy efficient powder that function as emulsifier, thickener and rheology modifier. It is easy-to-use and helps to reduce the carbon footprint of manufacturing.

JEESPERSE® ICE-T® LB-T-NS

INCI: Sodium Acrylate/Sodium Acrylol Dimethyl Taurate Copolymer (and) Cetyl Alcohol (and) Glycol Stearate (and) Glyceryl Stearate (and) Caprylic/Capric Triglyceride

INSTANT COLD EMULSION TECHNOLOGY

JEESPERSE® ICE-T® LB-T-NS allows an easy incorporation of waxy emulsifiers directly into the water phase to build emulsions with exceptional feel and stability. Our easy-to-use, eco-friendly Jeesperse® ICE-T® Series help reduce the carbon footprint of manufacturing processes.



- Naturally-derived + synthetic
- Globally compliant
- Leave-on / Rinse-off





Product name	INCI Name	Hair	Skin	Body	Color	Format
		Recommended Use Levels				
Jeesperse® CPW®-S	Helianthus Annuus (Sunflower) Seed Wax (and) Sodium Polyacrylate	0,5-2%	5-10%	5-10%	5-10%	Powder
JEESPERSE® ICE-T® LB-T-NS	Sodium Acrylate/Sodium Acrylol Dimethyl Taurate Copolymer (and) Cetyl Alcohol (and) Glycol Stearate (and) Glyceryl Stearate (and) Caprylic/Capric Triglyceride	0,5-2%	5-10%	5-10%	5-10%	Powder

BENEFITS

- Builds viscosity and improves stability
- Ensures uniformity of active ingredients
- Enhances film integrity
- Amplifies texture/skin feel
- Hydrates and conditions



JEECHEM® NDA Series

Silicone Alternatives

A 100% naturally-derived, multifunctional series of products created to serve as silicone alternatives.

Our advanced line of high purity alkanes also function as:

- Solvents
- Emollients
- Solubilizers
- Carriers
- De-tackifiers
- Dispersants

Looking for a D5 equivalent?

Our Jeechem® NDA-5 proves to be an exceptional match to D5 in slip, drying time, residue, dry skin feel and shine!

The JEECHEM® NDA range:

JEECHEM® NDA-LC
INCI: C9-12 Alkane

JEECHEM® NDA-CC
INCI: C13-14 Alkane

JEECHEM® NDA-5
INCI: C15-19 Alkane

JEECHEM® NDA-HC
INCI: C18-21 Alkane

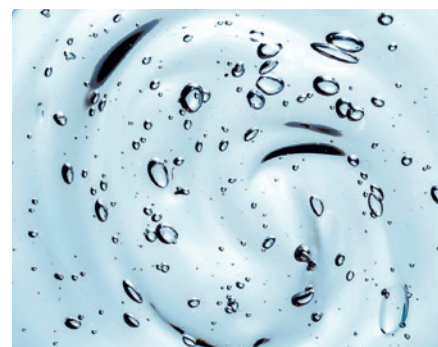


- Globally compliant
- Naturally-derived
- Vegan
- Leave-on / Rinse-off

SILICONE REPLACEMENTS - Naturally-Derived Alkanes

100% naturally-derived from sustainable vegetable stocks, Jeechem® NDA is a multifunctional series of high-purity alkanes created to serve as silicone alternatives, solvents, setting modifiers, carriers, emollients, solubilizers, de-tackifiers and dispersants.

Jeechem® NDA series exhibit great versatility – vastly simplifying incorporation of difficult ingredients such as UV filters, high purity actives, silicones, and silicone derivatives into formulations.





Product name	INCI Name	Hair	Skin	Body	Color	Format
		Recommended Use Levels				
Jeechem® NDA-LC	C9-12 Alkane	1–15%	1–10%	1–10%	1–25%	Liquid
Jeechem® NDA-CC	C13-14 Alkane	1–15%	1–10%	1–10%	1–25%	Liquid
Jeechem® NDA-5	C15-19 Alkane	1-30%	1–10%	1–10%	1–25%	Liquid
Jeechem® NDA-HC	C18-21 Alkane	1–15%	0,5–7%	0,5–7%	1–20%	Solid



OLEOSIL® Series

Natural Silicone Hybrids

A revolutionary extension of our NDA technology, the OleoSil™ gels are unique elastomeric silicone polymers reacted with naturally-derived oleochemical alkanes. Experiment and discover the large array of end products you can create with the OleoSil™ series that differ by sensorial feel, chemical function, and versatile end use.

OLEOSIL™ LC

INCI: C9-12 Alkane (and) Dimethicone Crosspolymer-3

IN SKIN CARE, adds smoothness, slip, non-greasy lubrication, and enhanced softness.

IN COLOR COSMETICS, enhances liquid, mousse, and stick foundations to a weightless, powder-like feel. Ideal for use in primers and correctors.

IN HAIR CARE, adds smoothness and shine, conditions, leaves a light film and a silky feel.

OLEOSIL™ CC

INCI: C13-14 Alkane (and) Dimethicone Crosspolymer-3



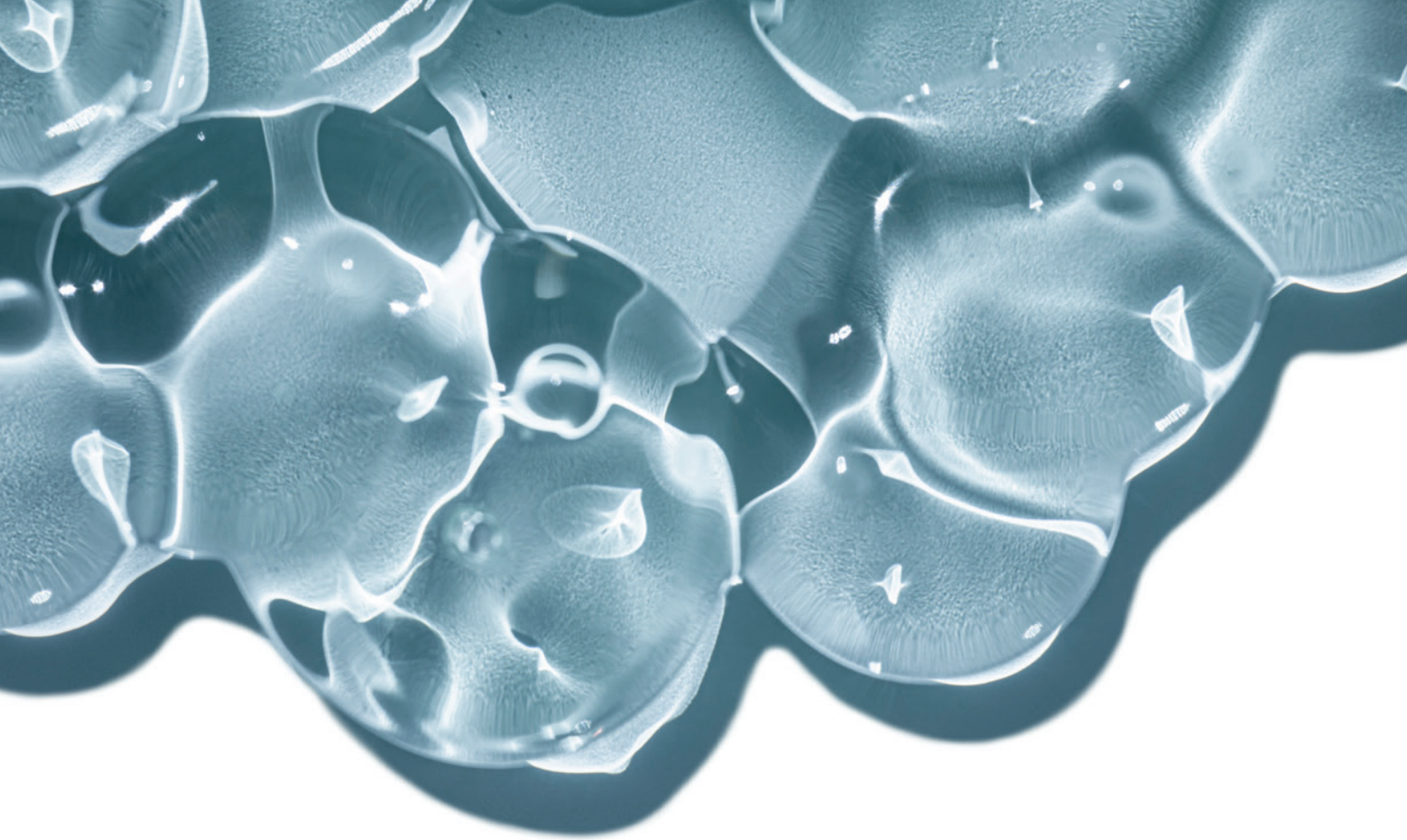
- Globally compliant
- 90% Naturally-derived
- Vegan
- Leave-on / Rinse-off

NATURALLY-DERIVED SILICONE ELASTOMER GELS - OleoSil™ LC and CC:

A silicone elastomer gel technology series that offers a greener, safer, more biodegradable alternative to traditional silicones.

The eco-friendly OleoSil™ gels are 10% dispersions of silicone elastomers in 100% naturally-derived oleochemical alkanes that allow the formulation of a large array of finished products that differ by sensorial feel, aesthetic, chemical function and performance.





Product name	INCI Name	Hair	Skin	Body	Color	Format
		Recommended Use Levels				
OleoSil™ LC	C9-12 Alkane (and) Dimethicone Crosspolymer-3	0,5–2%	5–15%	5–10%	5-20%	Gel
OleoSil™ CC	C13-14 Alkane (and) Dimethicone Crosspolymer-3	0,5–2%	5–15%	5–10%	5-20%	Gel

BENEFITS

- Greener, safer, more biodegradable than D5
- Suitable for cross-category use
- ISO Natural Origin Index 16128 Score of 0.9



BP-Willow Bark Extract

A Natural BHA System

Highly efficient extract made from the freshly harvested bark of the Salicaceae and genus Salix species of willow trees.

BP-WILLOW BARK EXTRACT - A Natural BHA System

INCI: Water (and) Salix Nigra (Willow) Bark Extract

Willow trees approximately contain 10% natural salicylates comprised of salicylic acid, salicin, salicortin, fragilin, populin, traiantrin, vimalin, tanins, flavonoids, and minerals – all of which act harmoniously as an analgesic on the skin. Willow Bark is also a valued source for naturally-derived salicylic acid. Our extraction and standardization methods deliver consistent BP-WILLOW BARK EXTRACT that have salicylic acid content ranging from 9–12% in every batch.

BP-WILLOW BARK EXTRACT

- is more gentle and effective than β -hydroxy acid
- doesn't result in irritation - which is typically caused by traditional salicylic acid

BENEFITS

- | | |
|----------------------|--------------------------|
| • Gentle exfoliant | • Firming / plumping |
| • Anti-acne | • Boosts skin elasticity |
| • Combats blackheads | • Evens skin tone |
| • Astringent | • Brightening |
| • Antiseptic | • Soothing |
| • Anti-aging | |



- Globally compliant
- Naturally-derived
- Vegan
- Leave-on / Rinse-off

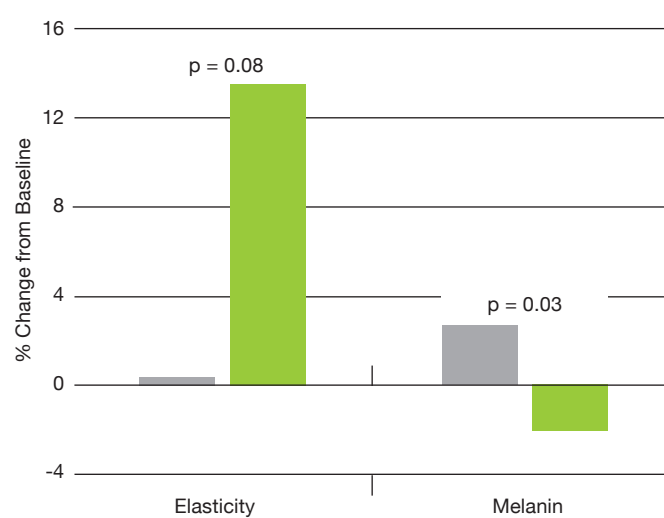




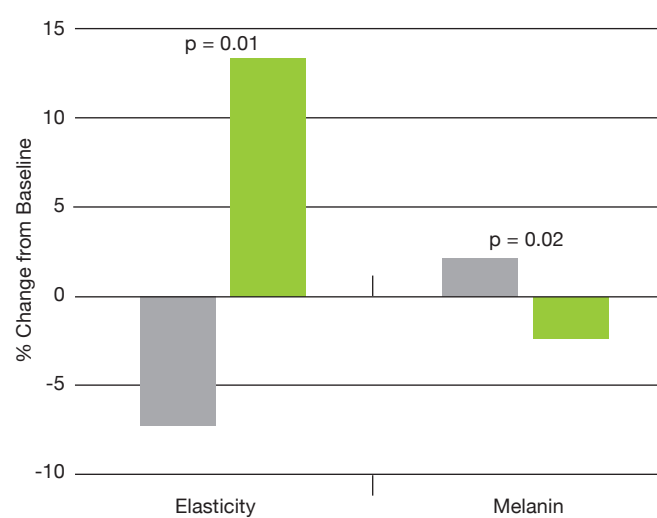
BP-WILLOW BARK EXTRACT

increased elasticity of skin and reduced melanin levels in comparison to placebo. n = 12

% Change from Baseline (1 week)



% Change from Baseline (2 weeks)



■ Placebo
■ BP-Willow Bark

SC-Help™ Defense

Scientific-Proven Scalp Protection

A natural complex supporting the health of dermal papillae cells in the scalp by directly addressing external reactive oxygen species (ROS) threats.

SC-HELP™ DEFENSE - Scientific-Proven Scalp Protection

INCI: Water (and) Citrus Aurantium Dulcis (Orange) Fruit Extract (and) Opuntia Ficus-Indica Fruit Extract (and) Lycium Chinense Fruit Extract (and) Olea Europaea (Olive) Fruit Extract

What are Dermal Papillae Cells?

Primary skin cells that are involved in the growth and regeneration of new hair on the scalp and body. They are located in the hair follicles near the root bulb of growing hair.

BENEFITS

- Rich in antioxidants
- Helps support healthy hair growth
- Protects hair roots from environmental threats – specifically UVB rays, blue light and particulate pollution
- Strengthens hair roots
- Minimizes follicle damage
- Combats inflammation / inflammaging of scalp and hair follicles
- Improves and supports overall scalp and hair health



- Globally compliant
- Efficacy tested
- Naturally-derived
- Leave-on / Rinse-off
- Vegan

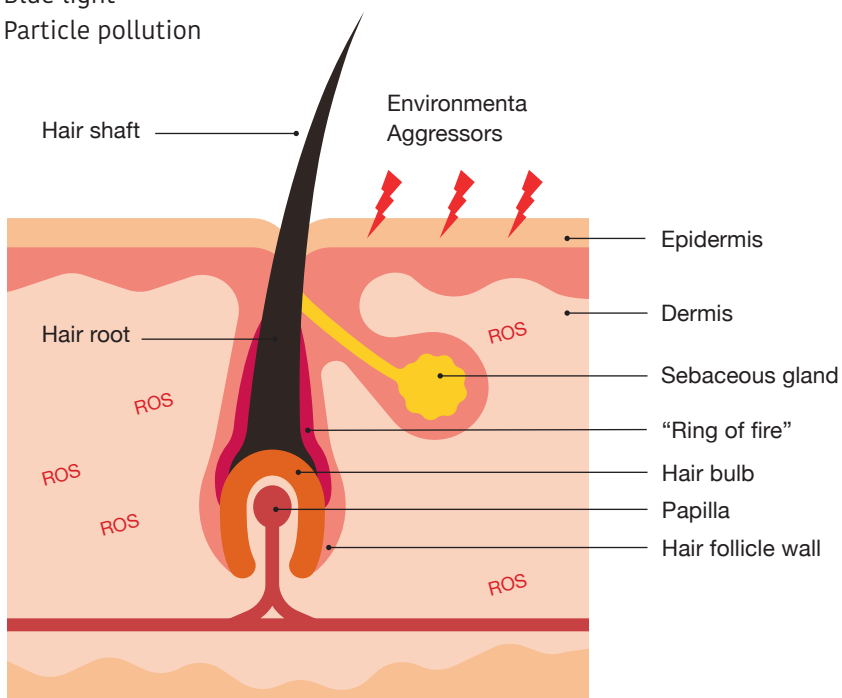




SC-HELP™ DEFENSE

Protecting the scalp against:

- UVB
- Blue light
- Particle pollution



BP-Triluronic® Acid Solution

3 Molecular Weight Hydration

A powerful combination of three different molecular weight fractions of natural hyaluronic acid produced through fermentation.

BP-TRILURONIC® ACID - 3 Molecular Weight Hydration

INCI: Aqua (and) Sodium Hyaluronate

BP-TRILURONIC® ACID synergistically deploys its specific benefits to the skin, making the layers more available and receptive to the beneficial effects of all skin care actives.

- **High molecular weight HA:** supports skin barrier repair, firms/lifts, soothes, moisturizes.
- **Mid molecular weight HA:** penetrates deeper into the stratum corneum, protects skin's Natural Moisturizing Factor (NMF), aids against inflammation/irritation, heals sensitive/dry/damaged skin.
- **Low molecular weight HA:** penetrates deeper into epidermis, induces production of native HA, aids in proliferation of the keratinocytes.

BENEFITS

- Hydrating
- Supports skin barrier function
- Moisturizing
- Minimizes look of fine lines
- Soothing
- Stimulates expression of ECM-III
- Supports wound healing
- Helps accelerate skin cell turnover



- Globally compliant
- Efficacy tested
- Naturally-derived
- Leave-on / Rinse-off
- Vegan





Highlighted actives & botanical extracts at a glance

Product name	INCI Name	Key benefits	Format	Dosage	Skin	Body	Scalp	Hair	Color
				Recommended Use Levels					
BP-Triluronic® Acid Solution <i>3 Molecular Weight Hydration</i>	Water (and) Sodium Hyaluronate	<ul style="list-style-type: none"> - Hydrating - Anti-aging - Soothing - Skin barrier support 	Liquid	1-3%	●	●	●	●	●
BP-Willow Bark Extract <i>Natural BHA system</i>	Water (and Salix Nigra (willow) Bark Extract	<ul style="list-style-type: none"> - Exfoliating - Anti-aging - Brightening, evening skin tone - Anti-redness; for troubled skin - Improves the overall tone and texture of skin - Oil control 	Liquid	1-10%	●	●	●		
SC-Help™ Defense <i>Scalp Protection; contains upcycled ingredients</i>	Water (and) Propanediol (and) Citrus Aurantium Dulcis (Orange) Fruit Extract (and) Opuntia Ficus-Indica Fruit Extract (and) Lycium Chinense Fruit Extract (and) Olea Europaea (Olive) Fruit Extract	<ul style="list-style-type: none"> - Environmental Protection - Root-strengthening - Damage-minimizing - Supports hair growth - Supports overall health of scalp and hair 	Liquid	1-3%			●	●	

FermBiotic®

Microbiome-friendly complexes

FermBiotic™ Series is a platform of microbiome-supporting complexes derived from extracts and microorganisms. Fermentation is the chemical breakdown of a substance by bacteria, yeasts, or other microorganisms, enabling bioactives of extracts to be more bioavailable for topical use.

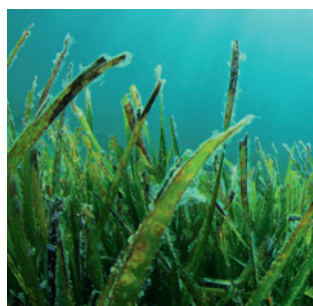


- Globally compliant
- Efficacy tested
- Plant-derived
- Leave-on / Rinse-off



GALACTOMYCES CANDIDUM
> Legumes

LEGUME FERMBIOTIC™ G.
= The Hydration Booster



LACTOBACILLUS PLANTARUM
> Marine Botanicals

Marine FermBiotic™ L.
= The Energy Booster



GALACTOMYCES CANDIDUM
> Superfruits

Superfruit FermBiotic™ G.
= The Protection Booster



SACCHAROMYCES CEREVISIAE
> Adaptogens

Adaptogen FermBiotic™ S.
= The Collagen Booster



LEGUME FERMBIOTIC™ G – Hydration Booster

INCI: Water (and) Galactomyces Ferment Filtrate (and) Hydrolyzed Cicer Seed Extract (and) Pueraria Lobata Root Extract (and) Medicago Sativa (Alfalfa) Extract

Inspired by veganism, Legume FermBiotic™ G. unlocks the power of highly beneficial legumes with the aid of postbiotic rich fungi, *Galactomyces Candidus* for topical use.

Legume FermBiotic™ G. has proven to increase Hyaluronidase-1 (HAS1) expression by 71%** in an in-vitro study conducted on Keratinocytes (primary cell type on the epidermis – the outermost layer of skin). HAS1 is the enzyme produced by keratinocytes and it is responsible for naturally producing Hyaluronic Acid in the skin. Simply put, Legume FermBiotic™ G. has shown to effectively improve skin's own ability to hydrate itself from within.

BENEFITS

- Strengthens skin barrier function
- Enhances skin elasticity
- Diminishes the look of fine lines and wrinkles
- Promotes a plump, youthful, radiant complexion
- Reinforces soft and smooth skin texture
- Boosts overall skin hydration and health



KEY INGREDIENTS

- **Friendly-fungi**
galactomyces candidus
- **Chickpea Extract**
hydrolyzed cicer seed
- **Kudzu Root Extract**
pueraria lobata
- **Alfalfa Extract**
medicago sativa

Study details

- **Study Type:** In-Vitro / HAS1 Assay
- **Cell Line:** Normal Human Epidermal Keratinocytes

** versus the untreated Control cells



SUPERFRUIT FERMBIOTIC™ G. – Protection Booster

INCI: Water (and) Galactomyces Ferment Filtrate (and) Terminalia Ferdinandiana Fruit Extract (and) Adansonia Digitata Fruit Extract (and) Persea Gratissima (Avocado) Fruit Extract

Superfruit FermBiotic™ G. is a fermented, phytonutrient- and antioxidant-rich, complex that offers optimal environmental protection with postbiotic properties for skin microbiome wellness. With a HORAC EC50 test value of 7.8 ug/ml**, Superfruit FermBiotic™ G. is very beneficial for the skin.

BENEFITS

- Protects skin against environmental stressors by reducing and counter-acting production of free radicals that cause oxidative stress
- Maximizes protection against UV damage when used along with sunscreen
- Helps maintain a healthy skin barrier
- Reduces skin inflammation to support even-skin tone
- Diminishes the look of dullness
- Helps combat premature aging
- Aids in reducing the look of fine lines and wrinkles
- Improves overall skin texture, tone and clarity



KEY INGREDIENTS

- **Friendly-fungi**
Galactomyces Candidus
- **Kakadu Plum Extract**
Terminalia Ferdinandiana
- **Baobab Fruit Extract**
Adansonia Digitata
- **Avocado Fruit Extract** *Persea Gratissima*

Study details

- **Study Type:** In-Situ / HORAC Assay (*Hydroxy Radical Antioxidant Capacity*)

** Trolox (a water-soluble Vitamin E derivative) has an EC50 value of 300 micrograms/mL. Higher the EC50 value, the less potent the antioxidant power.



MARINE FERMBIOTIC™ L. – Energy Booster

INCI: Water (and) Lactobacillus Ferment Lysate (and) Spirulina Platensis Extract (and) Laminaria Digitata Extract (and) Ulva Lactuca Extract

Boost the vitality of skin cells with the efficacious Marine FermBiotic™ L. Through the established MTT Assay, which measures how ingredients impact the vitality of growing cells, Marine FermBiotic™ L. has been proven to stimulate both epidermal (keratinocytes) and dermal (fibroblasts) skin cells by 21%**.

BENEFITS

- Boosts skin radiance
- Enhances skin tone and texture
- Supports skin cell renewal
- Strengthens cell metabolism
- Energizes skin cells
- Reinforces skin cell performance
- Improves overall skin health and appearance



KEY INGREDIENTS

- **Friendly-bacteria**
Lactobacillus Ferment Lysate
- **Blue-green Algae Extract**
Spirulina Platensis
- **Brown Seaweed Extract**
Laminaria Digitata
- **Sea Lettuce Extract**
Ulva Lactuca

Study details

- **Study Type:** In-Vitro / MTT Assay
- **Cell Line:** Normal Human Epidermal Keratinocytes and Normal Human Dermal Fibroblasts

** versus the untreated Control cells



ADAPTOGEN FERMBIOTIC™ S. – Collagen Booster

INCI: Water (and) Saccharomyces Ferment Lysate Filtrate (and) Centella Asiatica Flower/Leaf/Stem Extract (and) Beta Vulgaris (Beet) Root Extract (and) Tremella Fuciformis Extract

Boosts the natural collagen production of skin with the scientifically-proven anti-aging properties of Adaptogen FermBiotic™ S.

Adaptogen FermBiotic™ S. has shown superior ability to increase Type I Collagen expression in fibroblasts by 28%** based on in-vitro cell studies, in addition to supporting a balanced skin microbiome through postbiotic packed *Saccharomyces Cerevisiae*.

BENEFITS

- Increases collagen levels in skin cells
- Softens and smooth skin texture
- Restores skin's natural glow
- Diminishes the look of fine lines and wrinkles
- Supports skin cell renewal and repair



KEY INGREDIENTS

- **Friendly-fungi**
Saccharomyces Cerevisiae
- **Tiger Grass Extract**
Centella Asiatica
- **Beet Root Extract**
Beta Vulgaris
- **Snow Mushroom Extract**
Tremella Fuciformis

Study details

- **Study Type:** In-Vitro / COL1 Assay
- **Cell Line:** Normal Human Dermal Fibroblasts

** versus the untreated Control cells



Highlighted Actives & Botanical Extracts at a Glance

Product name	INCI Name	Key benefits	Format	Dosage	Skin	Body	Scalp	Hair	Color
				Recommended Use Levels					
Legume FermBiotic™ G Hydration Booster	Water (and) Galactomyces Ferment Filtrate (and) Hydrolyzed Cicer Seed Extract (and) Pueraria Lobata Root Extract (and) Medicago Sativa (Alfalfa) Extract	<ul style="list-style-type: none"> - boosts overall skin hydration and health - strengthens skin barrier function - reinforces soft and smooth skin texture 	Liquid	1-3%	●	●	●		●
Superfruit FermBiotic™ G. Protection Booster	Water (and) Galactomyces Ferment Filtrate (and) Terminalia Ferdinandiana Fruit Extract (and) Adansonia Digitata Fruit Extract (and) Persea Gratissima (Avocado) Fruit Extract	<ul style="list-style-type: none"> - protects skin against environmental stressors - limits free radicals production - helps combat premature aging 	Liquid	1-3%	●	●	●		●
Marine FermBiotic™ L. Energy Booster	Water (and) Lactobacillus Ferment Lysate (and) Spirulina Platensis Extract (and) Laminaria Digitata Extract (and) Ulva Lactuca Extract	<ul style="list-style-type: none"> - boosts vitality of skin cells - supports skin cell renewal - enhances skin tone and texture 	Liquid	1-3%	●	●	●		●
Adaptogen FermBiotic™ S. Collagen Booster	Water (and) Saccharomyces Ferment Lysate Filtrate (and) Centella Asiatica Flower/Leaf/Stem Extract (and) Beta Vulgaris (Beet) Root Extract (and) Tremella Fuciformis Extract	<ul style="list-style-type: none"> - increases collagen production - diminishes the look of fine lines and wrinkles - restores skin's natural glow 	Liquid	1-3%	●	●			●

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