



# Nutramedic &Cosmetics

No.22 / MAY/JUNE 2026



Sabinsa's  
integrated  
approach  
to longevity



Women's Health Ingredients: Probiotics  
for Menopause / Health Benefits of Marine  
Ingredients: Astaxanthin, Seaweed, and Algae /  
Skin and Beauty-from-Within: Collagen  
Peptides, Hyaluronic Acid and Ceramides /  
Vitafoods Europe Preview

# Editor's Word



## Innovation, Women's Health, and Vitafoods Europe

In this issue, we focus on key developments shaping the nutraceutical and cosmetics industries, with special attention to women's health, healthy aging, and ingredient innovation. You'll find coverage of clinically validated menopause solutions, probiotics, collagen for joint and skin health, marine ingredients, olive leaf polyphenols, and new strategies for metabolic support and active aging.

On the beauty side, we explore the growing beauty-from-within category through collagen peptides, hyaluronic acid, and ceramides, alongside discussions of clean cosmetics and science-backed skincare solutions that continue to link nutrition and personal care.

A key feature of this edition is Vitafoods Europe, where, as a Media Partner, we provide the latest updates on the programme, innovation awards, major exhibitors, and new product launches that are shaping the future of nutraceuticals. Insights from top global companies offer important perspectives on formulation, sustainability, and market trends.

We hope this issue sparks new ideas and helps facilitate smarter decisions in this inspiring industry.

**Daria Šurić,**  
EDITOR-IN-CHIEF

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in health, nutrition and cosmetics sector

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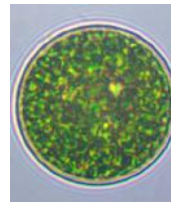
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# Sabinsa's Integrated Approach to Longevity

An integrated approach to longevity requires solutions that simultaneously target inflammation, metabolism, gut barrier function, and cognitive health - this is why Sabinsa develops science-backed ingredients that address key mechanisms of aging. By incorporating these innovative raw materials into their products, manufacturers can meet the growing demand for effective healthy aging solutions and stand out in the market.

**A**ging is now recognized as the progressive disruption of multiple interconnected systems rather than a simple decline. As individuals age, the balance of redox reactions deteriorates, the immune system tends toward chronic low-grade inflammation, metabolic flexibility decreases, intestinal barrier integrity weakens, and neural networks become less adaptable. These alterations are encompassed within the "hallmarks of aging," with inflammaging — the persistent low-grade inflammation that accumulates over time — emerging as a primary focus of nutritional interventions.

Sabinsa has developed a longevity-focused portfolio featuring branded ingredients that target multiple hallmarks simultaneously, ranging from the gut lumen to the brain.

## C3 Reduct®

C3 Reduct® addresses the longstanding challenge of curcumin's low and variable bioavailability by providing tetrahydrocurcuminoids



(THCs), the reduced metabolites generated from curcumin in the body, directly. Work in *Drosophila melanogaster* has shown that THC can extend lifespan via the dFOXO and Sir2 sirtuin pathway, which is the same axis influenced by caloric restriction, with Sir2 deficient flies losing the benefit entirely. THCs from turmeric have been evaluated by EFSA as a Novel Food and are authorized for use in food supplements for adults at up to 140 mg per day, with no safety concerns identified at that intake.

### Nigellin®

Nigellin® is a supercritical CO<sub>2</sub> extract of *Nigella sativa* standardized to 5% thymoquinone (TQ). Reviews of TQ report that it downregulates NF κB and MAPK signaling, moderates matrix metalloproteinase activity relevant to tissue aging, supports mitochondrial antioxidant defenses such as superoxide dismutase and catalase, and promotes autophagic processes that help maintain proteostasis. In a randomized, double blind, placebo-controlled trial in subjects with allergic rhinitis, a TQ rich *Nigella sativa* oil containing Nigellin® produced significantly greater reductions in symptom scores and IgE levels than placebo, indicating clinically meaningful immune modulation.



center clinical trial in newly diagnosed type 2 diabetic subjects with dyslipidemia, Saberry® at 2 g per day significantly reduced fasting blood glucose, HbA1c, LDL cholesterol, and triglycerides, with some endpoints comparing favorably with metformin.

### Tinofolin®

Tinofolin® is Sabinsa's cognitive health ingredient based on *Tinospora cordifolia*. Clinical work with a standardized extract has shown improvements in verbal learning, logical memory, and recall in a placebo-controlled study, consistent with its traditional adaptogenic use and its proposed modulation of the HPA axis and stress response.



### LactoSpore®

On the microbiome side, LactoSpore® (*Bacillus coagulans* MTCC 5856) is a spore forming probiotic with strong survival through gastric conditions and documented colonization and activity in the intestine. Clinical and in vitro data indicate that it can modulate inflammatory cytokines, support increases in butyrate producing genera, and improve both IBS symptoms and depression scores in a gut brain axis setting.



### Silbinol® and pTeroSol®

Silbinol® and pTeroSol® within Sabinsa's pterocarpus platform provide complementary tools for metabolic and vascular aging. Silbinol® supplies pterostilbene from *Pterocarpus marsupium*, a naturally occurring analog of resveratrol with higher lipophilicity and metabolic stability. Pterostilbene has been shown to activate SIRT1, influence PGC 1α driven mitochondrial biogenesis, and support mitochondrial stress responses, with studies using Sabinsa's material in diabetic animals reporting superior effects compared with resveratrol on blood glucose, insulin levels, and skeletal muscle contractile function. pTeroSol® is a water-soluble extract of *Pterocarpus marsupium* standardized to C glycosides such as pterocarposide and sabioside and has been clinically investigated for helping maintain healthy blood glucose and lipid parameters in adults with early type 2 diabetes.



### PoZibio®

PoZibio®, a postbiotic derived from heat inactivated *Lactobacillus paracasei* D3.5, has been shown in preclinical and early human work to enhance mucin production and strengthen the gut barrier, which is increasingly recognized as central to controlling systemic inflammation and aspects of aging.



### ImmunoSpore®

ImmunoSpore® uses heat inactivated *Bacillus coagulans* MTCC 5856 to deliver cell wall components and metabolites that can support epithelial integrity and balanced immune responses in applications where live spores are not suitable, maintaining mechanistic continuity with LactoSpore®.



When seen together, these components beautifully showcase a systems biology approach to longevity, focusing on key areas like redox balance, immune health, mitochondrial function, blood sugar regulation, brain health, and gut barrier support through a coordinated strategy. For formulators and brand owners, Sabinsa's portfolio offers a well-researched toolkit to create innovative healthy aging solutions that go beyond single-target methods, providing comprehensive support for the complex biology of aging.

### Saberry®

Saberry®, a proprietary *Emblica officinalis* extract standardized to 10 % beta glucogallin, has been shown in vitro to inhibit alpha glucosidase, alpha amylase, and DPP 4, three enzymes directly involved in postprandial glycemic control. In a 90-day multi-



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# Health Benefits of Marine Ingredients: Astaxanthin, Seaweed, and Algae

Marine and botanical extracts, particularly astaxanthin and seaweed-derived minerals, are a rich source of bioactive compounds with significant therapeutic potential<sup>1</sup>.

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## What are seaweed, algae, and astaxanthin?

Astaxanthin, a potent carotenoid, is primarily derived from microalgae, while seaweed and other algae encompass a broad spectrum of macroscopic and microscopic photosynthetic organisms.

Seaweeds are macroscopic marine algae, broadly classified into red, brown, and green varieties based on their pigmentation, and are rich in minerals, carbohydrates, and proteins<sup>2</sup> (Figure 1).

In contrast, microalgae such as *Haematococcus pluvialis* are microscopic, unicellular organisms renowned for their biosynthesis of potent carotenoids like astaxanthin<sup>3</sup>. Astaxanthin, a xanthophyll carote-

noid, is particularly noted for its exceptional antioxidant capacity, significantly surpassing that of other well-known antioxidants such as beta-carotene and alpha-tocopherol<sup>4</sup>.

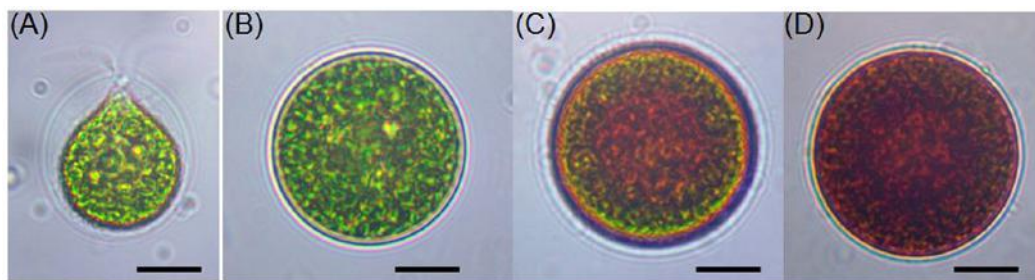
## How are they sourced for industry purposes?

The industrial sourcing of these compounds leverages the rapid growth rates and high metabolic plasticity of microalgae, enabling efficient cultivation for targeted compound extraction<sup>5</sup>. Specifically, *Haematococcus pluvialis* is extensively cultivated for its high astaxanthin content, which exhibits a broad spectrum of pharmacological effects, includ-

Figure 1 *Sargassum sp.*



Taken from: Abdi G, Karande VC, Mohammed A, Abbasi Tarighat M, Wen Goh K, Abdul Kari Z, Seong Wei L, Ahmad Mohd Zain MR, Mohammadi M, Ee Lee G and Barwant MM (2022) Pharmacological potential of *Sargassum sp.* of west coast of Maharashtra Kunkeshwar, India. *Front. Mar. Sci.* 9:1011218. doi: 10.3389/fmars.2022.1011218

**Figure 2** Light microscopic images of *H. pluvialis* cells in life cycle


(A) Green vegetative motile cell; (B) Green vegetative palmella cell; (C) Astaxanthin accumulating palmella cell in transition to aplanospore; (D) Astaxanthin accumulated aplanospore cell. Scale bar: 10  $\mu$ m. Taken from: Shah MMR, Liang Y, Cheng JJ and Daroch M (2016) Astaxanthin-Producing Green Microalga *Haematococcus pluvialis*: From Single Cell to High Value Commercial Products. *Front. Plant Sci.* 7:531. doi: 10.3389/fpls.2016.00531

ing anti-inflammatory, anti-diabetic, and neuroprotective properties<sup>6,7</sup>.

Despite these promising attributes, astaxanthin's clinical applicability is often hampered by its poor bioavailability, low stability, and limited solubility, necessitating advanced formulation strategies for enhanced therapeutic efficacy<sup>8</sup>. Furthermore, the diverse biochemical profiles of various algae and seaweeds yield a wide array of co-nutrients, including specific B vitamins and polyphenols, which can synergistically enhance the bioavailability and therapeutic impact of astaxanthin<sup>9</sup>.

For instance, the xanthophylls found in algae, such as fucoxanthin from brown seaweeds, are recognized for their anti-tumor and anti-inflammatory activities. Zeaxanthin is a structural isomer of lutein. Both isomers are usually found in various foods, mainly found in green leafy vegetables and algae<sup>10</sup>.

The microalga *Haematococcus pluvialis* is recognized as the optimal natural source of astaxanthin<sup>11,12</sup> (Figure 2), while other microalgae such as *Chlorella zofingiensis* also show promise<sup>13</sup>.

### Therapeutic potential of these natural compounds

Therapeutic potential of these natural compounds includes immune-modulatory, antioxidative, and anti-inflammatory properties, contributing to overall health and disease prevention<sup>14,15</sup>.

Astaxanthin exhibits superior antioxidant capabilities compared to other common antioxidants<sup>16</sup>. Its unique molecular structure enables efficient quenching of singlet oxygen and scavenging of free radicals<sup>17,18</sup>. Furthermore, astaxanthin demonstrates neuroprotective effects by reducing pro-inflammatory cytokine expression and reactive oxygen species production<sup>19</sup>.

Beyond astaxanthin, marine natural products from seaweeds present diverse bioactivities, including anti-aging, anti-cancer, anti-diabetic, and fertility-enhancing properties<sup>20</sup>. Marine algae are significant sources of proteins, fatty acids, carbohydrates, vitamins, and minerals with applications in pharmaceutical and nutraceutical industries<sup>21</sup>.

Seaweeds are rich in bioactive metabolites and represent a promising resource for drug development<sup>22,23</sup>. They contain pigments like fucoxanthin,

polysaccharides like fucoidan, and a wide range of micronutrients<sup>15</sup>. Their bioactive compounds, such as phycocyanin, lutein, zeaxanthin, and  $\beta$ -carotene, further support their role as a functional food source<sup>14</sup>.

Marine algae are considered underexploited bioresources with strong biomedical potential<sup>24</sup>, showing antioxidant, antibacterial, antiviral, and anti-inflammatory effects<sup>24</sup>.

Neuroprotective effects are also observed, particularly through modulation of pathways such as NF- $\kappa$ B/Akt and MAPK<sup>25,26</sup>, contributing to protection against neurodegenerative diseases<sup>21</sup>. Additional evidence highlights the importance of secondary metabolites and sulfated phenolic compounds in delivering antioxidant and antimicrobial benefits<sup>23,26,27</sup>.

Seaweed bioactives such as phycobiliproteins and fucoidans further contribute to antioxidant, anti-inflammatory, and antiviral effects<sup>28</sup>. Their complex composition - including saccharides, proteins, phenolics, fatty acids, vitamins, and minerals - makes them highly valuable for dietary applications<sup>14,29</sup>.

### Astaxanthin for eye health and skin protection

Astaxanthin plays a key role in protecting ocular tissues from oxidative stress and supporting retinal health. Additional carotenoids such as lutein and zeaxanthin contribute to protection against oxidative damage in the eye<sup>30</sup>.

Marine bioactives also modulate inflammatory pathways by influencing macrophage activity and reducing cytokine production<sup>31,32</sup>. Compounds such as astaxanthin and fucoxanthin reduce IL-6 and oxidative stress, contributing to neuroprotection<sup>26</sup>.

They also attenuate microglial activation, relevant in neurodegenerative diseases such as Parkinson's disease<sup>33</sup>. Phlorotannins from brown algae exhibit strong antioxidant properties and modulate oxidative stress-related enzymes<sup>34,29,35</sup>, making them promising candidates for nutraceutical and pharmaceutical use<sup>22,36</sup>.

### Seaweed in supplements and functional food

Seaweed extracts are widely used in functional foods due to their bioactive compounds such as

phlorotannins and carotenoids<sup>37,38</sup>. These compounds provide immunomodulatory and antioxidant benefits<sup>34,39,32</sup>.

Polysaccharides like fucoidan and laminarin contribute to immune enhancement and show anti-diabetic and antimicrobial effects<sup>15</sup>. Brown algae compounds like fucoxanthin regulate oxidative stress and inflammation<sup>40</sup>.

### Algae omega potential in supplementation

Phlorotannins and other algal metabolites also show potential in neurodegenerative disease prevention<sup>41</sup>.

Algae are rich in omega-3 fatty acids, essential for cardiovascular and cognitive health<sup>42</sup>. These compounds improve neuronal membrane function and synaptic plasticity<sup>43</sup>, supporting memory and learning<sup>44</sup>.

### Sustainability of algal omega-3

Algae cultivation represents a sustainable alternative to fish-derived omega-3 sources, reducing environmental impact and overfishing<sup>45,46</sup>.

### Conclusion

Marine-derived bioactives, particularly astaxanthin and seaweed compounds, offer significant therapeutic potential. Their mechanisms include reducing oxidative stress, modulating inflammation, and protecting against neurodegeneration<sup>47-50</sup>.

Microalgae-derived compounds such as lutein and sulfated polysaccharides further contribute to antioxidant defense and disease prevention<sup>51</sup>. Their rich composition makes them promising ingredients for functional foods and nutraceuticals targeting chronic and neurodegenerative diseases<sup>52</sup>.

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# Women's Health Ingredients: Probiotics for Menopause – Recurrent UTI, Vaginal Atrophy

Probiotics are increasingly being explored as an option for managing menopause-related conditions, such as recurrent urinary tract infections (UTIs) and vaginal atrophy. Certain types of probiotics may help restore beneficial bacteria, improve pH balance and support overall vaginal health - all of which are affected during menopause.

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## **The changes women experience during menopause**

Menopause marks the end of a woman's reproductive years and a transition into a new stage of life<sup>1</sup>. It's driven by a steady decline in estrogen and progesterone, two important hormones produced by the ovaries. As these hormone levels drop, they trigger a wide range of changes throughout the body<sup>2</sup>.

## **Hormonal changes and the vaginal microbiome**

One of the less visible but important effects of

menopause is its impact on the microbiome, the community of microorganisms that live in and on the body<sup>3,4</sup>. Hormonal changes can influence the balance of bacteria in several areas, including the gut, vagina, skin and the mouth<sup>3</sup>.

In the vaginal environment, estrogen helps maintain a healthy balance of bacteria. During the reproductive years, vaginal tissues contain high levels of glycogen, which supports the growth of beneficial bacteria known as lactobacilli. These bacteria produce lactic acid, keeping vaginal pH in an acidic range of about 3.5 to 5.0. This acidic environment helps protect against infections in both the vaginal and urinary tracts<sup>5</sup>.





After menopause, lower estrogen levels reduce glycogen levels. This leads to a decrease in lactobacilli and a rise in vaginal pH<sup>5</sup>. The loss of protective bacteria allows for harmful microorganisms, such as *Escherichia coli*, *Candida*, *Gardnerella* and *Enterobacter* to grow more easily. As a result, postmenopausal women are more prone to infections such as bacterial vaginosis and vulvovaginal candidiasis<sup>5</sup>.

Moreover, estrogen is essential for maintaining the structure and function of the urogenital system. Its decrease causes the tissues in the vagina, labia, urethra and bladder to become thinner, drier and more fragile. These changes, combined with the shift in the microbiome, increase the risk of genitourinary syndrome of menopause (GSM). This condition is estimated to affect between 27% and 84% of postmenopausal women and can cause symptoms such as vaginal dryness, irritation and thinning of the vaginal and urinary tract tissues<sup>5</sup>.

### The estrogen-gut microbiome axis

In addition to the vaginal microbiome, estrogen is also connected to the gut microbiome. This relationship appears to work both ways. Hormonal changes during menopause can alter the gut microbiome. Some studies suggest that menopause is associated with lower gut microbiome diversity and a shift toward patterns more commonly observed in men. However, larger-scale studies are needed to confirm these findings<sup>7</sup>.

On the other hand, the gut microbiome helps regulate estrogen levels in the body. Certain beneficial gut bacteria help “recycle” estrogen by converting it into a form that can be reabsorbed back into the bloodstream. This process, often referred to as the estrobolome, influences the amount of active estrogen that continues to circulate<sup>7</sup>.

### Changes outside of the reproductive system

The effects of menopause aren't limited to the reproductive tract. Falling estrogen levels affect other

areas of health, such as decreased bone density, which increases the risk of osteoporosis<sup>8</sup>.

Menopause can also affect a woman's cardiovascular health, as it's associated with several risk factors. These include hypertension, insulin resistance, obesity and changes in body composition. Furthermore, it can lead to changes in how the heart and blood vessels function, such as reduced arterial flexibility and alterations in heart structure. This may increase the risk of heart disease<sup>9</sup>.

Interestingly, patterns during the menopause transition may offer clues about future cardiovascular health. In one long-term study of 428 women followed for up to 10 years, changes in menstrual cycle length were linked to later heart health. Women whose cycles lengthened later in the transition tended to have better artery health after menopause<sup>10</sup>.

### Probiotics for vaginal health in menopausal woman

Probiotics are foods or supplements containing non-pathogenic microorganisms, including beneficial bacteria and yeast<sup>11</sup>. Experts have recommended probiotics for gut health for many years, where they help restore balance to the microbiota, especially after disruption from antibiotic use, stress or illness<sup>12</sup>. Outside of the gut, probiotics may also influence other microbial environments in the body. This has led to growing interest in probiotics for vaginal health, including menopause-related changes<sup>13</sup>.

### How probiotics help restore balance

Probiotics may help restore a healthier vaginal environment by increasing *Lactobacillus* levels. This stabilizes the vaginal microbiota and lowers pH levels, thereby preventing and managing vulvovaginal candidiasis and bacterial vaginosis. They may reduce symptoms that often occur due to vaginal infections, such as vaginal discharge and odor<sup>13</sup>.

Moreover, *Lactobacillus* is important for protecting the vaginal lining, as it can attach to the vaginal

epithelium and form a barrier that prevents pathogens from colonizing<sup>14</sup>. In addition, it produces natural substances that inhibit the growth of harmful bacteria and yeast, while helping to maintain a stable, acidic environment. This makes probiotics a promising approach to alleviate GSM symptoms, including recurrent UTIs, vaginal dryness and itching. The outcomes may be further optimized when combined with estrogen therapy<sup>13</sup>.

### Other benefits of probiotics for menopause

Aside from vaginal health, probiotics for menopause are increasingly being studied for their broader impact on the body. Evidence suggests that they may improve symptoms such as hot flashes and mood changes. They may also benefit cardiovascular and bone health<sup>15</sup>.

#### Cardiovascular health

Studies show that probiotics may help address cardiovascular risk factors that tend to increase during menopause. Higher-dose probiotics containing *Bifidobacterium* and *Lactobacillus* have been linked to measurable improvements. These include healthier blood vessels, lower blood pressure and reduced inflammation in the body<sup>16</sup>.

Probiotics may support cardiovascular health through several other mechanisms. They reduce circulating inflammatory markers, which can help lower overall cardiovascular risk. Additionally, they may influence how the body processes fats. Certain probiotic strains can affect bile metabolism, leading the liver to use more cholesterol, which may help lower blood cholesterol levels. They may also improve insulin resistance by producing short-chain fatty acids. This further contributes to better metabolic health<sup>16</sup>.

#### Bone and metabolic health

There's evidence that probiotics can enhance calcium absorption in the gut, which may help slow the decline in bone mineral density in women at risk of osteoporosis or osteopenia. This could potentially delay bone damage over time<sup>16</sup>.

### Safety, tolerability and formulation considerations

Although research in postmenopausal women is still developing, current research demonstrates that probiotic supplementation is generally a feasible and safe strategy for managing menopause-related conditions<sup>16</sup>.

Both oral and vaginal probiotic formulations could offer a natural solution for restoring vaginal balance and reducing symptoms associated with GSM<sup>17</sup>. Oral probiotics, in particular, offer advantages compared to vaginal probiotics. They're simple to take and incorporate into daily diets, and typically face fewer regulatory hurdles<sup>18</sup>.

Probiotic therapies are also being explored for their potential to improve the quality of life during menopause. Their ability to support microbial balance across different body systems makes them a promising addition to existing management strategies<sup>19</sup>.

### An emerging support for menopause management

Probiotics are emerging as a supportive option for managing menopause-related changes, particularly those affecting vaginal and urinary health. Although more consistent evidence is still needed, their potential to restore microbial balance, reduce discomfort and support overall well-being makes them a promising addition to existing menopause management strategies.



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# Advancing Women's Health with Clinically Validated Ingredients Specifically Targeting Menopause

Advertorial

Women's Health has experienced, and continues to experience, a significant shift driven by demand for targeted, evidence-based solutions that address women's specific physiological needs throughout their lives. From perimenopause to post-menopause, today's consumers prefer non-hormonal, clinically validated options that not only alleviate symptoms but also enhance overall quality of life.

Clinically backed ingredients that address not only the core symptoms of menopause but also the interconnected challenges of mental well-being, metabolic health, and vitality are essential for supporting and empowering women at every stage of their lives.

## Menopause: A Multifaceted Health Challenge

Menopause is a complex physiological transition characterized by hormonal fluctuations that influence thermoregulation, mood, metabolism, sleep, and physical vitality. Common symptoms like hot flashes, night sweats, decreased sexual desire, weight gain, and mood changes often happen together, necessitating a comprehensive intervention approach.

Saanroo's ingredient portfolio acknowledges and reflects this complexity by offering clinically studied solutions that work across synergistic systems rather than addressing symptoms in isolation.

## Genopause®: The Ultimate Menopausal Blend

Interest in non-hormonal menopause support is accelerating as women seek alternatives, often favoring botanical, science-based solutions. Genopause is a blend of four Ayurvedic herbal extracts that offers a single solution to mitigate menopausal symptoms.

In a randomized, double-blind, placebo-controlled clinical study of 117 healthy women aged 40-65 years, Genopause significantly reduced:

- Menopausal symptoms (MONQOL)
- Vasomotor, psychosocial, physical, and sexual domain measurements
- Hot flashes and night sweats

These findings suggest that Genopause is a safe and effective treatment for reducing menopausal symptoms among healthy menopausal women.

## Affron®: Supporting Mood and Mental Balance During Menopause

Mood disturbances and mental imbalance are common yet often overlooked symptoms of menopause. Take control with Affron, a scientifically validated standardized saffron extract proven to support mental well-being during this challenging time.

In randomized, double-blind, placebo-controlled trials, supplementation with Affron® at 28 mg/day:

- Helps to maintain a positive mood
- Improve emotional balance

By aiding mood regulation, Affron® offers a natural, well-tolerated solution for overall emotional balance during a time in women's lives that is too often dismissed as a normal pillar of menopausal health.

## Trpti™: Targeting Metabolic Health and Weight Management

Weight gain and changes in body composition are common during menopause, driven by hormonal shifts that affect appetite regulation, fat distribution, and metabolic efficiency. However, these changes are not often directly associated with menopause, and solutions are not typically positioned to address these frustrations.

Trpti addresses these challenges by supporting endogenous GLP-1 production and enhancing satiety signaling. A highly bioavailable form of oleoylethanolamide (OEA), Trpti has been shown to promote fat metabolism and reduce caloric intake, offering a natural strategy for weight management.

In its most recently published study, a randomized, double-blind, placebo-controlled trial, 57 overweight individuals who received 300 mg of Trpti saw:

- Significant weight improvement in specific subgroups
- Enriched Akkermansia muciniphila compared to placebo – a species commonly recognized for its potent metabolic benefits
- Increased Faecalibacterium prausnitzii – a major butyrate-producing bacterium linked to anti-inflammatory effects and gut health
- Targeted immune and barrier support

During menopause, when metabolic resilience often declines, Trpti™ offers a targeted, non-pharmaceutical solution aligned with current trends in metabolic and GLP-1-related health.

## Libifem®: Hormonal Balance and Vitality

Derived from Trigonella foenum-graecum, Libifem is one of the most clinically studied botanicals for women's health.

Multiple randomized, placebo-controlled trials have demonstrated that Libifem can:

- Increase free testosterone and estradiol levels within normal physiological limits
- Improve sexual function, arousal, and satisfaction
- Reduce menopausal symptoms such as hot flashes and night sweats

This combination of hormonal and physical benefits makes Libifem a cornerstone ingredient for women seeking to maintain vitality through menopause and beyond.

## A Systems-Based Future for Women's Health

What distinguishes these ingredients is not just the individual efficacy of each, but how they collectively address the interconnected nature of women's health.

- Genopause® targets core menopausal symptoms
- Affron® supports mood and mental balance
- Trpti™ addresses metabolic health and weight management
- Libifem® enhances hormonal balance and vitality

Together, these ingredients reflect a shift toward addressing multiple pathways simultaneously to deliver meaningful improvements in quality of life.

As clinical research continues to expand, this integrated approach is set to redefine how menopause and women's health are supported, moving beyond symptom management toward proactive, science-driven wellbeing.

# The Science of Synergy: Redefining Menopause Through Multi-Pathway Innovation

*One System, Total Support - Addressing  
the Interconnected Nature of Women's  
Wellness*



**4 Clinically  
Studied  
Ingredients  
Proven to  
Empower the  
Whole  
Woman.  
A Systems-  
Based  
Approach to  
Healthspan.**



# BioCell Collagen® for Joint, Skin and Connective Tissue Health

**A patented matrix of collagen type II, hyaluronic acid, and chondroitin sulfate, BioCell Collagen® supports joint mobility, skin hydration, and connective tissue integrity. Clinically studied and highly bioavailable, it helps counteract age-related decline in the extracellular matrix. This comprehensive approach targets both structural and aesthetic aspects of healthy aging.**

Intrinsic aging produces many physiological changes that affect how the body looks and feels which depends, at least in part, upon the structural integrity of the connective tissue in joints, skin, tendons, ligaments, bones, and blood vessels. Connective tissue, which is primarily composed of collagen, glycosaminoglycans (GAGs), and proteoglycans, binds all of the organs and other tissues of the body. Aging gradually weakens the connective tissue by depleting collagen and GAG accumulation, and by UV initiated photo-damage and other lifestyle risk factors such as smoking or chronic exposure to environmental pollutants.

Nutraceuticals have been used for several decades to ameliorate the physiological degradation of connective tissue, associated with a decline in skin firmness and elasticity, and joint comfort and mobility due to aging. Among these nutraceuticals is branded healthy aging dietary supplement ingredient called BioCell Collagen® developed and distributed by BioCell Technology, LLC of Irvine, CA USA. Multiple human clinical trials including safety, efficacy, and bioavailability studies have demonstrated that oral ingestion of BioCell Collagen® promotes joint health and skin beauty.

BioCell Collagen® is a novel hydrolyzed chicken sternal cartilage extract composed of collagen type II peptides, chondroitin sulfate, and hyaluronic acid in a highly absorbable matrix form.

## **A comprehensive approach to healthy aging**

Many internal and external factors influence the pace and effects of aging. The progression of aging is linked to steady deterioration of the extracellular matrix (ECM) in connective tissue, which results from decreased synthesis and increased degradation of molecules essential for connective tissue integrity.

Since collagen and GAGs such as chondroitin sulfate (CS) and hyaluronic acid (HA) are the major molecular constituents of the ECM, their replenishment could help counteract various undesirable effects of aging. These effects include overall bodily weakness, vulnerability to injury, and visible facial changes.

However, there are very few science-backed dietary supplements on the market that address the loss of these structurally essential molecules. BioCell Collagen® comprehensively addresses the loss of these molecules by providing both collagen and GAGs.

## **The unique molecular nature of BioCell Collagen®**

BioCell Collagen® is derived exclusively from hormone and antibiotic free chicken sternal cartilage, which is a rich source of type II collagen, hyaluronic acid, and chondroitin sulfate, and closely mirrors the composition of human articular cartilage. Cartilage is a very clean and desirable source because it is free from blood supply and it is devoid of lymphatics, blood vessels, and nerves unlike other animal parts (e.g., cow or pig skin and bones) which most collagen ingredients are derived. The source is of importance because many impurities are carried through the blood supply, thus obtaining exclusively from cartilage eliminates the risk of potential contamination. In the dietary supplement industry, when collagen is marketed without denoting the type, it usually means the collagen product is made of Types I and III collagen, also known as gelatin. Collagen Types I and III coexist in skin and bone tissues. Collagen type II is rare and more valuable because it is predominantly found in cartilage where it naturally coexists with hyaluronic acid and chondroitin sulfate in a blood-free environment.

BioCell Collagen® is manufactured via a patented procedure that includes filtration, purification, concentration, hydrolysis, and sterilization, to ensure consistent quality and safety. This process reduces the size of its molecules to a specific range thereby increasing the bioavailability of the bioactive constituents found within the unique biomolecular composition of BioCell Collagen®.

The synergy among BioCell Collagen®'s three biomolecular matrix constituents are unique and cannot be found in any other collagen ingredients or blends.

## The scientific studies of BioCell Collagen®

The ingestion of BioCell Collagen® is thought to stimulate chondrocytes and play a role in the renewal mechanism of cartilage and to stimulate fibroblasts for skin renewal thus supporting all three major collagen types (I, II, and III). Moreover, BioCell Collagen® was shown to have a concentration-dependent inhibition of hyaluronidase, the enzyme that degrades hyaluronic acid, which can contribute to signs of aging on the skin and loss of viscoelasticity of joint synovial fluid. BioCell Collagen® also attenuates deleterious changes in inflammatory biomarkers including creatine kinase, lactate dehydrogenase, and C-reactive protein adding further clues into its mechanism of action.

In an 80 subject, randomized, double-blind, placebo-controlled trial, two grams of BioCell Collagen® taken daily for twelve weeks to promote joint health. The subject's experienced statistically significant improvements in their ability to engage in physical activities (Schauss et al., 2012). These results corroborated the results of an earlier double-blind placebo-controlled trial tested on sixteen people. (Kalman et al., 2004).

In another randomized, double-blind, placebo-controlled of BioCell Collagen® performed in a study of healthy recreationally active subjects given three grams of BioCell Collagen® over a six-week period before an upper-body muscle-damaging resistance exercise challenge. Participants experienced favorable improvements in stress resilience and recovery

after bouts of intense resistance exercise without any reported side effects (Lopez et al, 2014).

In a pilot clinical study on BioCell Collagen® showed that a daily intake of one gram of BioCell Collagen® significantly reduced skin dryness and facial wrinkles in association with an increase in blood circulation and collagen content in the skin (Schwartz and Park, 2012).

### Skin beauty

Clinically shown to:

- Reduce fine lines and wrinkles
- Reduce skin dryness/scaling
- Increase collagen content in the dermis
- Increase blood microcirculation of facial skin

### Joint support

Clinically shown to:

- Clinically shown to improve joint comfort and mobility
- Clinically shown to impact key biochemical markers of connective and skeletal muscle tissue damage and enhance stress resilience following intense resistance exercise.



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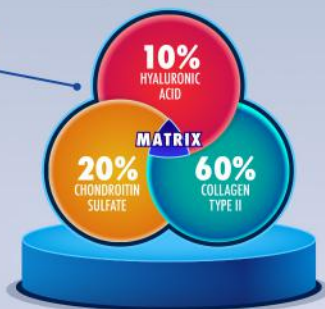
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SUPPORTING VISIBLE SKIN BENEFITS  
AND HEALTHY JOINT FUNCTION\*  
**ALL IN ONE BIOACTIVE MATRIX.**

\*These statements have not been evaluated by the Food and Drug Administration. This product is not intended to diagnose, treat, cure or prevent any disease.



# The Future of Healthy Ageing Starts with BCM-95®

BCM-95® is a scientifically advanced turmeric solution designed to support healthy ageing by extending health span, not just lifespan. With enhanced bioavailability and multi-system benefits, it helps address key challenges of ageing, including inflammation, mobility, and cognitive health. BCM-95® offers a natural, clinically supported pathway to maintaining vitality and well-being throughout life.

As the world's population ages, the focus has shifted from simply extending life to extending health span - the years lived in good health, with mobility, energy, and mental clarity. In this context, healthy ageing with turmeric, especially through the advanced curcumin formula BCM-95®, is emerging as a leading, science driven pathway to support a longer, healthier health span. BCM-95®, developed by Arjuna Natural from 100% turmeric, offers a powerful, natural ingredient specifically designed to address many of the key health challenges associated with ageing while delivering superior bioavailability, safety, and broad clinical validation.

## Healthy ageing with turmeric: a global health span priority

Healthy ageing with turmeric is now a core pillar of modern wellness. The healthy ageing segment is one of the fastest growing areas in the supplement and nutraceutical space, reflecting rising demand for products that support mobility, energy, cognition, and emotional resilience. In recent years, healthy ageing has been ranked among the top three fastest growing condition based supplement categories, highlighting its importance in consumer health span priorities.

This shift is driven by demographic and lifestyle changes. Every day, millions of people turn 65, and younger generations - especially older Millennials -



are increasingly adopting proactive, preventive health routines. Rather than waiting for chronic disease, consumers are turning to evidence based, turmeric rich sources like BCM-95® to help maintain strength, flexibility, immunity, and brain health over time, all key to a longer, healthier health span.

## Why healthy ageing with turmeric enhances health span

Turmeric's active component, curcumin, is renowned for its antioxidant and anti-inflammatory properties, both of which play a critical role in managing age related oxidative stress and chronic low grade inflammation. These factors are central to preserving mobility, cognitive function, and immune resilience as people age. However, standard curcumin extracts often suffer from poor absorption and rapid metabolism, limiting their impact on health span. BCM-95® overcomes these limitations, making it one of the most advanced choices for healthy ageing with turmeric and health span enhancement.

## Key benefits of BCM-95® for health span:

- **Enhanced bioavailability:** BCM-95® combines curcumin with turmeric essential oil standardized to 45% Ar turmerone, making it more bioavailable than standard curcumin extracts.
- **Triple action mechanism:**
  - Inhibits P glycoprotein (P-gp) to improve absorption.
  - Slows liver metabolism to preserve active curcumin.
  - Offers a higher keto enol curcumin ratio for greater stability and potency.
- **Multi system support:** Supports joint, immune, brain, liver, and cardiovascular health - key pillars of a longer, healthier health span.
- **Strong clinical backing:** Supported by more than 90 scientific publications, 45+ human clinical studies, and 40+ international patents.
- **Global reach:** Trusted by consumers in over 70 countries, with more than 200 million doses consumed annually.
- **Sustainable production:** Manufactured using so-

lar energy and aligned with modern safety and sustainability standards for eco friendly, clean label formulations.

### Q&A: Healthy ageing with turmeric and health span

**Q: Why should healthy ageing with turmeric focus on health span?**

A: Health span refers to the number of years lived in good health, with the ability to move, think, and function independently. Healthy ageing with turmeric helps maintain mobility, immunity, and cognitive function, improving the quality of later life.

**Q: How does BCM-95® support joint health for a better health span?**

A: BCM-95® helps support joint comfort, flexibility, and function, easing stiffness and supporting physical activity, especially in individuals managing conditions such as osteoarthritis. This contributes to maintaining mobility and independence, key aspects of health span.

**Q: Can BCM-95® help with age related immune decline?**

A: Yes. As immune function tends to weaken with age, BCM-95® helps support immune resilience through its antioxidant and anti-inflammatory actions, contributing to a more balanced, responsive immune system.

**Q: How does BCM-95® enhance brain health and cognitive support within a health span framework?**

A: BCM-95® has demonstrated the ability to cross the blood brain barrier, supporting neuroprotective and cognition supporting effects. It helps manage oxidative and inflammatory stress in the brain - key drivers of age related cognitive changes - thereby supporting mental clarity and memory as part of a longer health span.

### Putting healthy ageing with turmeric into practice

Healthy ageing with turmeric, backed by ingredients like BCM-95®, is about building a consistent, science informed routine that supports day to day function and long term health. This includes a balanced diet, appropriate physical activity, and targeted supplementation that supports mobility, immunity, and cognitive health. BCM-95® fits seamlessly into health span oriented protocols, helping individuals maintain a strong, active, and independent lifestyle well into their later years.

### Conclusion

The future of healthy ageing lies in extending health span, and healthy ageing with turmeric through BCM-95® is at the forefront of this movement. With its superior bio efficacy, broad spectrum benefits, and strong sustainability and safety profile, BCM-95® provides a powerful, trusted pathway to vitality, mobility, and cognitive resilience. As consumer priorities continue to evolve toward proactive, health span focused wellness, this innovative turmeric based curcumin formula is redefining what it means to age well - empowering individuals to live their later years with strength, clarity, and a genuine commitment to natural health.

# B2B Events Calendar 2026

This is an overview of the B2B live events during 2026


**FOOD MATTERS** *live* **3-4 June, London**  
<https://foodmatterslive.com/london>


 **COSMETIC BUSINESS** **10-11 June, Munich**  
<https://www.cosmetic-business.com/en/>

 **Vitafoods Asia** **2-4 September, Bangkok**  
<https://www.vitafoodsasia.com/>

 **Nutramedic & Cosmetics** **MEDIA PARTNER**

**FOOD MATTERS** *live* **22-23 September, Rotterdam**  
<https://foodmatterslive.com/rotterdam>


 **natexpo** **28-29 September, Lyon**  
<https://natexpo.com/>

 **CPHI** **6-8 October, Milan**  
<https://www.cphi.com/europe/>

 **COSMETORIUM** **21-22 October, Barcelona**  
<https://www.cosmetorium.es/en/>

 **SupplySide® Global** **26-30 October, Las Vegas**  
<https://www.supplysideglobal.com/>

 **Fi Europe** **17-19 November, Frankfurt**  
<https://www.figlobal.com/europe/>

 **in-Vitality** **25-26 November, Milan**  
<https://www.in-vitality.it/>

# Olive Leaf Polyphenols as a New Strategy

A narrative review published in *Food & Function* confirms that Olecol® represents a clinically validated, safe, and natural alternative to Monacolin K.



As cardiovascular health remains a leading global concern, proactive blood lipid management is becoming an increasingly important focus within the nutraceutical industry. Consumers are seeking natural, safe, and clinically validated solutions to help maintain healthy cholesterol levels before pharmaceutical intervention becomes necessary. This shift is particularly relevant following regulatory changes around Monacolin K from red yeast rice, creating a clear need for effective alternatives.

A newly published, narrative review in *Food & Function* reports that olive leaf polyphenols, like Olecol®, can beneficially modulate lipid parameters, oxidative stress, inflammation, and vascular function.

The study was conducted by Solabia Nutrition's internal R&D team in collaboration with Maastricht University researchers.

## Olecol®: olive leaf polyphenols for healthy blood and healthy aging

Olecol® is a clinically validated extract derived from freshly pruned Spanish olive leaves (Manzanilla variety), standardized for key polyphenols including oleuropein and hydroxytyrosol.

Clinical data demonstrates that Olecol® significantly reduces total cholesterol, LDL-cholesterol, and triglycerides at a daily dose of 250 mg. With its strong safety profile and natural origin, Olecol® represents a compelling alternative to Monacolin K, supporting blood lipid management without the regulatory and safety concerns associated with red yeast rice.

## Study overview & methods

This narrative review synthesizes clinical and mechanistic evidence on the effects of olive leaf and olive oil polyphenols on blood lipid profiles and cardiovascular risk markers in both healthy and at-risk populations.

Clinical studies using standardized olive leaf extracts or olive oil preparations with defined phenolic content were included. Multi-ingredient formulations containing additional bioactive compounds were excluded to isolate the effects of olive-derived polyphenols. Data were analyzed across different populations, including healthy individuals, those with cardiovascular risk factors, overweight or obese individuals, and hyperlipidaemic subjects. Mechanistic insights from preclinical models were also incorporated.

## Results

The findings demonstrate that olive-derived polyphenols exert population-dependent benefits:

- In healthy individuals, improvements were primarily observed in oxidative stress and vascular markers
- In individuals with elevated cardiovascular risk, more consistent reductions were seen in LDL cholesterol, total cholesterol, triglycerides, and oxidised LDL
- Postmenopausal and mildly hyperlipidaemic individuals showed meaningful improvements, particularly with longer supplementation.

Mechanistic studies indicate that olive polyphenols influence lipid metabolism and vascular function through AMPK activation, suppression of SREBP-1c, modulation of PPAR pathways, enhancement of antioxidant defences via Nrf2 signalling, and attenuation of inflammatory pathways including NF-κB and MAPK.

## Addressing a growing market need

With increasing scrutiny on Monacolin K and a growing demand for natural, safe, and effective lipid management solutions, Olecol® offers a scientifically substantiated alternative for the nutraceutical market. Its clinically demonstrated efficacy, combined with a strong safety profile, positions it as a next-generation ingredient for cardiovascular health and healthy aging applications.



Solabia Nutrition, headquartered in Maastricht, The Netherlands, develops proprietary, clinically validated bioactive formulations for the health and sports nutrition industry. All Solabia Nutrition ingredients are natural, science-backed, and supported by rigorous clinical testing. Key areas of expertise include gut microbiome, brain health, women's health, energy & vitality, and skin health.

Effects of olive leaf polyphenols on blood lipid profiles and cardiovascular risk markers in healthy and at-risk populations: a narrative review – full text available [here](#).

**For more information:** [contact@solabia.com](mailto:contact@solabia.com)

# Colorcon Launches New OneLock™ All-in-One Closure System Integrating Moisture Protection Directly into the Cap

The innovative solution reduces packaging complexity and improves production efficiency while enabling seamless integration into existing filling lines. OneLock™ supports reliable moisture control, extended shelf life, and enhanced product integrity for pharmaceutical and nutraceutical applications.

Colorcon, a global leader of film coating systems, core excipients, modified release technologies and controlled atmosphere packaging, announced the launch of OneLock™, an innovative all-in-one closure system designed to simplify packaging and production, while delivering consistent moisture protection.

OneLock integrates a desiccant directly into the closure, eliminating the need for a separate desiccant canister or packet. By combining multiple packaging components into one, easy-to-use solution, OneLock was designed to help pharmaceutical and nutraceutical manufacturers streamline their filling operations by reducing packaging complexity.

OneLock supports reliable moisture control to protect moisture sensitive solid oral dosage forms throughout their full lifecycle, extending shelf life and product efficacy. Additionally, the closure reduces the risk of missing or loose desiccants, offering greater confidence in package integrity from production through to patient use.

"OneLock is a reflection of our ongoing commitment to solving real-world challenges for our global customers," said Dave Bain, Vice President - Functional Packaging at Colorcon. "By simplifying the packaging process, OneLock was designed to help customers operate more efficiently while safeguarding product quality."

OneLock is compatible with a range of SP 400 bottles and is designed to integrate seamlessly into existing filling lines, helping manufacturers adopt

the closure solution with minimal production disruption. The closure system also includes a tamper evident disk and a child resistant push-and-turn system, further supporting packaging innovation that balances performance and patient safety.

With the launch of OneLock, Colorcon is proud to expand its portfolio of controlled atmosphere packaging solutions that address the evolving needs of pharmaceutical and nutraceutical manufacturers worldwide.

Colorcon is a world leader in the development, supply and technical support of formulated film coating systems, modified release technologies, core excipients, and controlled atmosphere packaging for the pharmaceutical and nutraceutical industries. Colorcon's best-in-class products and technologies are complemented by extensive application data and value-added services to support all phases of solid oral dose including design, development and manufacture. Colorcon's focus on market issues and technology development has earned the company an international reputation as a pharmaceutical supplier of choice. That reputation is based on superior product quality, unparalleled technical support, extensive regulatory assistance, and reliable supply from multiple locations.

**For more information:** [www.colorcon.com](http://www.colorcon.com)



# Skin and Beauty—from-Within: Collagen Peptides, Hyaluronic Acid and Ceramides Supplementation Status

The burgeoning field of nutricosmetics increasingly focuses on ingestible compounds that confer systemic benefits for skin health, in contrast to the localized effects of topical applications<sup>1</sup>. Among these, collagen peptides, hyaluronic acid, and ceramides have garnered significant attention for their potential to enhance skin integrity, hydration, and overall appearance from within.

AUTHOR:  
NMC editorial team

Oral supplementation with low-molecular-weight collagen peptides has been shown to improve skin hydration and elasticity while reducing wrinkles by influencing dermal fibroblast activity and extracellular matrix synthesis<sup>2,3</sup>. A systematic review and meta-analysis of randomized controlled trials confirmed that hydrolyzed collagen supplementation significantly enhances skin hydration and elasticity<sup>4</sup>. Further investigations indicate that collagen peptides rich in specific amino acid sequences, such as X-Hyp or X-Hyp-Gly, exhibit enhanced absorption and greater efficacy in promoting collagen synthesis within the dermis<sup>5</sup>. Beyond collagen, other dietary supplements, such as ceramides and hyaluronic acid, have also been recently investigated for their roles in enhancing skin health and moisture content<sup>6</sup>.

## Collagen

Beyond direct synthesis, oral intake of enzymatically hydrolyzed collagen peptides has been shown to improve skin moisture and barrier function by increasing ceramide and natural moisturizing factor levels in the *stratum corneum*<sup>7</sup>. Concurrently, meta-analyses underscore the statistically significant impact of collagen supplementation on skin hydration and elasticity, often exceeding moderate effect

sizes in key dermatological parameters<sup>8</sup>. For example, combined collagen and ceramide supplementation has been observed to yield a statistically significant increase in skin hydration and a concomitant decrease in transepidermal water loss compared to placebo<sup>9</sup>. This synergistic effect highlights the potential for multi-ingredient formulations to comprehensively address various aspects of skin aging, moving beyond single-agent interventions.

Collagen, a fibrillar protein composed predominantly of proline, hydroxyproline, and glycine, is the primary structural component of the dermal extracellular matrix, accounting for over 70% of the skin's dry weight and providing essential density and elasticity<sup>10,11</sup>. As individuals age, a decline in type I collagen synthesis, exacerbated by intrinsic and extrinsic factors, contributes significantly to dermal thinning, loss of elasticity, and the formation of wrinkles<sup>12</sup>.

## Collagen supplementation

Consequently, collagen supplementation aims to counteract age-related degradation by supplying precursors for collagen synthesis and stimulating endogenous collagen production<sup>13</sup>. For example, collagen hydrolysates from marine sources have been shown to reduce photoaging-induced wrinkle formation and improve moisture retention by increasing the expression of aquaporin 3 and CD44 in keratinocytes<sup>14</sup>.

Furthermore, these collagen peptides are absorbed into the bloodstream as di- and tripeptides, such as Pro-Hyp and Hyp-Gly, after oral ingestion. These peptides then target fibroblasts in the dermis to stimulate cell proliferation, hyaluronic acid synthesis, and extracellular matrix regulation<sup>15,16</sup>. This process enhances skin hydration by increasing hyaluronic acid production and improving overall structural integrity. The implantation of collagen has also been considered an effective strategy to improve extracellular matrix conditions and delay skin aging<sup>17</sup>.



## Hyaluronic acid

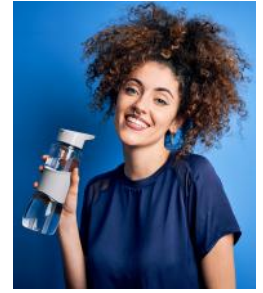
This polysaccharide, integral to the extracellular matrix, is renowned for its exceptional water-retention capacity, thereby playing a pivotal role in maintaining skin turgor and viscoelasticity<sup>1</sup>. Endogenous hyaluronic acid production, however, diminishes with age, contributing to decreased skin hydration and elasticity, making supplementation an attractive strategy to replenish dermal hyaluronic acid levels<sup>18</sup>. Indeed, clinical studies have substantiated that oral intake of hyaluronic acid can significantly improve skin moisture, ameliorate dry skin conditions, and reduce the appearance of wrinkles, likely through its regenerative properties and its ability to enhance skin density and thickness<sup>19</sup>.

## Hyaluronic acid supplementation

Oral hyaluronic acid supplementation has been shown to improve skin hydration and reduce wrinkles, with clinical trials demonstrating significant improvements in skin parameters such as *stratum corneum* water content and elasticity<sup>20</sup>. Beyond its direct hydrating effects, hyaluronic acid may also mitigate photodamage by reducing UV-induced inflammation and extracellular matrix degradation<sup>21,22</sup>. Nevertheless, the synergistic potential of co-administering these bioactive compounds warrants further investigation, particularly regarding their differential effects on distinct dermal cellular processes and matrix components. For instance, enhanced absorption of peptides such as Pro-Hyp and Gly-Pro-Hyp from collagen hydrolysates increases hyaluronic acid production in dermal fibroblasts, suggesting a functional interplay between these pathways<sup>11</sup>.

## Ceramides

These lipid molecules are critical components of the *stratum corneum*, forming a protective barrier that regulates transepidermal water loss and maintains skin hydration. Their age-related decline or structural disorganization can impair barrier function, leading to increased skin dryness, sensitivity, and susceptibility to environmental stressors. Consequently, exogenous ceramide supplementation aims to restore barrier integrity and enhance the skin's natural moisturizing capabilities, contributing to improved skin texture and resilience. Clinical trials have demonstrated that oral ceramide intake can notably augment skin hydration and barrier function, as evidenced by reduced transepidermal water loss and enhanced *stratum corneum* integrity.



## Ceramides supplementation

Oral administration of sphingomyelin, a ceramide precursor, increases ceramide levels in the body, thereby improving skin hydration and barrier function, particularly in models of UV-induced photoaging<sup>23</sup>. This increase in epidermal lipid content and organization subsequently improves skin texture and resilience, underscoring the vital role of ceramides in maintaining dermatological homeostasis. The comprehensive benefits observed with ceramide supplementation underscore their potential as a therapeutic intervention for various dermatological conditions characterized by impaired barrier function.

Furthermore, ceramides, as vital constituents of the intercellular lipids in the *stratum corneum*, are crucial for establishing and sustaining the skin's water-preserving capabilities<sup>6</sup>. A reduction in ceramide

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content within the *stratum corneum* has been directly linked to barrier disruption and xerosis, thereby necessitating topical or systemic interventions to restore optimal epidermal function<sup>24</sup>. For instance, low molecular weight hyaluronic acid modulates ceramide synthesis in human dermal fibroblasts, suggesting a complex interplay between different biomolecules in maintaining skin health<sup>25</sup>.

## Conclusion

This interaction underscores the complexity of skin aging and the potential for synergistic effects from combined supplementation strategies. Oral supplementation with collagen, hyaluronic acid, and ceramides is a promising approach to enhancing dermal health and mitigating age-related skin deterioration. Future research should focus on optimizing dosages and delivery methods for these compounds, while exploring the long-term efficacy and potential synergistic effects of their combined administration to further elucidate their precise mechanisms of action across diverse skin phototypes and conditions.

This continued exploration could also assess the efficacy of hydrolyzed fish cartilage in mitigating photoaging-induced skin changes, consistent with studies showing reduced wrinkles and increased dermal echogenicity<sup>28</sup>. Beyond these established agents, novel approaches are emerging, such as the "In & Out" strategy combining topical and oral melatonin, which has demonstrated improvements in lipid profiles and moisturization<sup>26</sup>. Additional areas of inquiry include the effects of probiotics, prebiotics, and postbiotics on aging skin, given their emerging roles in modulating the skin microbiome and barrier function<sup>27</sup>.

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# “Clean” in Cosmetics: A Widely Used Term with No Clear Definition

“Clean” has become one of the most frequently used yet least defined terms in cosmetic communication. In the absence of regulatory criteria, its use raises questions about claim substantiation, fairness, and consumer interpretation. A closer look reveals where formulation philosophy ends and regulatory responsibility begins.



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## What prompted this topic

Recently, I came across a social media post that prompted me to reflect on a topic increasingly present in the cosmetics industry.

The post was visually appealing and featured a natural pigment alongside the phrase “clean beauty look”. There was no further explanation, no definition, no context - as if the meaning of the term were self-evident.

What makes such examples particularly relevant is the fact that these formulations often come from individuals who present themselves professionally as experts in cosmetic product development or pharmacy. This creates an implicit impression for consumers that such claims are grounded in regulatory requirements and scientifically verified, although this is often not the case. On the contrary, such statements typically arise from a simplified understanding of a complex regulatory framework or from the need for more attractive product commu-

nication, while overlooking their actual legal and professional implications.

Such a seemingly harmless expression raises a question that is rarely asked: what does “clean” actually mean in cosmetics?

## “Clean” as a marketing construct

“Clean” is not defined in Regulation (EC) No 1223/2009 nor in Regulation (EU) No 655/2013.

There is no official definition, no set of criteria, and no regulatory category that recognises it. In other words, “clean” is purely a marketing construct.

## Regulatory framework: what actually applies

Although the term itself is not defined, all claims used in cosmetic product communication must comply with the criteria set out in Regulation (EU) No 655/2013.



These criteria include truthfulness, evidential support, honesty, fairness, clarity, and informed decision-making. This means that every claim - including informal ones such as "clean" - must be clear, understandable, and substantiated.

### The role of the formulator and regulatory boundaries

In practice, technical and regulatory roles often overlap, but it is important to clearly distinguish their responsibilities.

A cosmetic formulator develops the composition and functionality of a product, ensures its technical stability and performance, and selects raw materials and defines their compatibility. However, understanding and correctly interpreting cosmetic legislation - including safety assessment and claims compliance - goes beyond the formulator's role and requires specific regulatory expertise.

It is precisely at this interface that simplifications often occur: a technically sound product does not necessarily mean regulatorily compliant communication.

### Where "clean" becomes a regulatory issue

If a claim has no clear meaning, it is difficult to substantiate.

In the case of "clean", there is no standard, no measurable criterion, and no verification methodology. A logical question arises: what exactly is being claimed?

Although often not explicitly stated, "clean" in practice carries a certain connotation: safer, more natural, more desirable. This enters the scope of the fairness criterion. According to Regulation (EC) No 1223/2009, all cosmetic products placed on the market must be safe for human health.

In other words, "clean" cannot mean safer, because safety is not an optional category.

### "Free from" claims and ingredient discreditation

"Clean" communication is often accompanied by so-called "free from" claims, such as free from parabens, free from silicones, or free from "chemicals".

According to EU guidance, such claims must not discredit permitted ingredients and must not imply that a product is safer than others. Otherwise, this undermines the principle of fair communication towards the consumer.

### Technological trade-offs

Returning to the initial example, the same post that promotes a "clean beauty look" also raises the question: "7 days later - why is it brown?"

This single question reveals an important, yet often overlooked reality in formulation: products developed in line with certain "clean" or natural concepts may have technological limitations, for example in terms of stability or durability.

This does not mean that such approaches are wrong, but it does mean that "clean" does not necessarily imply a better formulated or more stable product.



### When "clean" can make sense

Although the term "clean" is not defined in legislation, this does not necessarily mean it should be avoided entirely.

When used responsibly, it can serve as a communication tool - provided that its meaning is clearly defined and does not mislead the consumer.

For example, a "clean" positioning may be justified when a brand transparently explains the criteria behind it, such as a deliberately simplified formulation approach, the exclusion of certain ingredient groups based on brand philosophy rather than safety concerns, or a focus on specific sourcing, processing, or formulation principles.

In such cases, "clean" does not function as a claim of superiority, but rather as a descriptor of formulation philosophy.

The key difference lies in clarity: "clean" becomes acceptable only when it is explained, contextualised, and stripped of implicit safety claims.

### Broader implications: perception vs facts

When terms such as "clean" are used without clear meaning, consumers make decisions based on perception rather than informed data.

This creates distrust towards regulated ingredients, undermines market transparency, and blurs the line between fact and interpretation.

### Conclusion: the word is not the problem - the context is

The term "clean" itself is not prohibited, but its use must be clear and understandable, must not imply a safety advantage, and must not discredit other products.

Otherwise, what begins as an attractive marketing message can quickly become a regulatory risk.



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# Vitafoods Europe Unveils Programme to Help Industry Navigate the Sector's Most Disruptive Trends

The programme features over 100 expert speakers from across the nutraceutical sector, including Professor Tim Spector OBE as keynote speaker at the Future of Nutrition Lunch and Learn.



Vitafoods Europe (5–7 May 2026), the leading global platform for the nutraceutical, functional food and beverage, and dietary supplement industries, has unveiled the agenda for its largest and most forward-looking edition yet. The 2026 programme is designed to help brands respond to some of the most disruptive forces shaping the nutraceuticals landscape, with full day sessions dedicated to the explosive impact of GLP-1 medications on nutrition strategies and the rapidly rising beauty-from-within market.

These **spotlight sessions** will take place on day three of the show, running alongside an extensive programme of more than 37 hours of content across multiple stages, including the **Vitafoods Insights Theatre** and the **Vitafoods Europe Conference**.

With over **100 expert speakers** from across the nutraceutical sector, the programme offers unmatched insight into emerging trends, product innovation, and the future of nutrition. Speaker highlights include **Professor Tim Spector OBE, Scientific Co-Founder at ZOE and Professor of Genetic Epidemiology at King's College London**, alongside leading specialists in trends and innovation, such as Mintel, FMCG Gurus, Innova Market Insights and more.

## The GLP-1 era: turning disruption into opportunity

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CAGR over the past five years, meaning the weight management sector is set for a transformative shift. In response, demand is growing for targeted nutritional solutions that support users throughout the GLP-1 journey, including for muscle maintenance, metabolic health and overall wellbeing.

To help brands navigate this evolving landscape, Vitafoods Europe 2026 will host a dedicated **spotlight on weight management** on 7 May. Sessions will include discussions on the need to shift from focusing on calorie restriction to holistic, evidence-based approaches; the potential of plant-based proteins for metabolic support; and emerging supplement-based alternatives to GLP-1 medications – offering insights into how the nutraceutical sector can deliver effective tailored results for consumers. Key sessions will include Sophia Cornelius, specialised Nutrition Analyst at **Mintel**, on “The future of weight management: Nutrition innovation in a GLP-1 era” and a panel discussion on complementary supplements for GLP-1s, featuring Lauren Struszczyk, Senior Scientist at the **British Nutrition Foundation**.

### Beauty-from-within: the next nutrition boom

The rapidly accelerating beauty-from-within movement is positioning nutricosmetics as one of the most exciting frontiers in the global nutrition industry, with the market projected to grow from around \$8.3 billion in 2026 to nearly \$16 billion by 2034. As consumers increasingly link appearance with overall wellbeing, innovation is expanding beyond traditional supplements into functional foods, beauty drinks and longevity-focused nutrition.

Vitafoods Europe's dedicated **nutricosmetics spotlight** will bring experts together to explore the science and innovation shaping the future of ingestible beauty. Sessions will explore the convergence of beauty, nutrition and pharma innovation, examining evidence for emerging ingredients – including peptides, antioxidants and marine compounds – and highlight the preventative “beauty-from-within” strategies resonating with younger consumers. Attendees will take a deep dive into the rapidly expanding nutricosmetics market and its global impact, with a highlight session from Mike Hughes, Head of Research and Insight at **FMCG Gurus** on the market opportunities for nutricosmetics.

### More to learn across the show floor

Alongside the new spotlight sessions, Vitafoods Europe 2026 will see the return of key learning platforms. The **Vitafoods Insights Theatre** features presentations covering market updates and major consumer trends influencing the global nutraceutical market, with **Innova Market Insights** highlighting its top ten trends for 2026 (May 5) to open the stage. Another key highlight will be the **Startup Challenge** live pitches and awards (May 5), which will showcase breakthrough ideas from rising innovators. Meanwhile the **Vitafoods Europe Conference** serves as the central hub for cutting-edge science, with a carefully curated programme designed to inspire and equip professionals in R&D, product development, innovation, and strategy roles. These content features will join the **Nutraceutical Showcase Theatre**, which was introduced last year to feature voices from across the entire nutraceutical supply chain, from contract manufacturers to finished products and beyond.

### Networking and knowledge

Also returning in 2026 are networking sessions created to facilitate industry dialogue, including the return of the **Future of Nutrition Lunch & Learn**. This year's session will bring together industry experts to explore how biohacking and longevity science are shaping the next generation of nutraceutical innovation. Newly announced for this year, **Professor Tim Spector OBE, Scientific Co-Founder at ZOE and Professor of Genetic Epidemiology at King's College London**, will appear as keynote speaker, with further details of his talk to be announced soon.

The **Women's Networking Breakfast** also returns for 2026, featuring a panel discussion exploring how women's health is shaping resilience, product development and business success across the industry. This fan-favourite session aims to create space for women to network and build meaningful relationships that last beyond the show floor, with interactive discussions focused on personal and professional growth.

Speaking on the 2026 agenda, **Gareth Baguley, Brand Director, Vitafoods Europe, Informa Markets**, says: “We are in what is perhaps the most dynamic period of nutraceutical innovation in recent history. Advances in science and technology are rapidly reshaping what is possible and raising expectations around how nutrition can support health. As a result, we are seeing a fundamental shift towards solutions that support health in more personalised, preventative and holistic ways. The Vitafoods Europe 2026 programme is designed to bring these shifts into sharp focus, enabling the global nutrition community to explore the ideas, research and collaborations that will define the next chapter of nutraceuticals.”

#### For more information:

<https://www.vitafoods.eu.com/en/whats-on/agenda/full-programme.html>

#### Don't miss out by securing your pass today:

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# Industry Innovators Shortlisted for Vitafoods Europe Innovation Awards 2026

Vitafoods Europe has unveiled the finalists for the 2026 Vitafoods Europe Innovation Awards, spotlighting the standout innovations driving progress across ingredients, finished products, and industry initiatives. Building on the momentum of a highly successful 2025 launch, this year's awards celebrate the pioneering work and forward-thinking solutions shaping the future of the global nutraceutical industry.

## Redefining the industry through rapid innovation

The 2026 awards attracted a strong response from Vitafoods Europe exhibitors and industry organisations – 25% more entries compared to 2025 – with entries showcasing the latest innovations driving the sector forward. After careful evaluation by an independent panel of expert judges, a shortlist of 25 finalists has been selected across eight award categories, including two new additions for 2026 – Weight Management Ingredient and Nutricosmetic Ingredient. These new categories have been designed to reflect the emerging, fast-moving areas of innovation where cutting-edge science and rapidly evolving consumer trends are driving the next wave of nutraceutical solutions.

Speaking on this year's shortlist, **Prof. Colin Dennis, Chair of the Board of Trustees at IFIS Publishing**, said: "The pace of change in nutraceutical innovation is staggering – entirely new categories are appearing almost overnight, driven by fast-moving science and new data-led insights. This exciting landscape is challenging the industry to rethink what a nutraceutical product can achieve, and the calibre of entries for this year's Vitafoods Europe Innovation Awards is a real testament to the ingenuity of the companies leading the way. The breadth and quality of submissions highlight the remarkable creativity and scientific advancement in our industry. These finalists truly represent the best of what the industry has to offer, and we look forward to seeing their innovations brought to life in Barcelona."

## From shortlist to spotlight

Finalists will present their submissions live to the judging panel – chaired by Prof. Colin Dennis and comprising of leading, independent specialists in science, regulation, market insight and product development – in Barcelona on 4 May, before Vitafoods Europe officially opens. Winners will then be revealed during an exclusive awards ceremony on 5 May, where they will receive a trophy, a tailored Vitafoods Europe promotional package to enhance visi-

bility both online and on-site, and a brand awareness webinar sponsorship package, provided by awards sponsor Smartcore.

## Vitafoods Europe Innovation Awards 2026 Finalists:

### Sports Nutrition & Active Lifestyle Ingredient

- Givaudan - Cereboost
- Mingchi Biotechnology (MCB) - CreHyline
- Natural Remedies - Ashwa.30
- Immune & Gut Health Ingredient
- dsm-firmenich - Humiome B2
- Martin Bauer Nutraceuticals - 360GUT
- NutriScience Innovations - ButyraGen

### Cognitive & Emotional Health Ingredient

- Morinaga Milk Industry - LAC Living+
- Pharmanager Ingredients - RhodioZen
- Threotech - Magtein

### Healthy Ageing Ingredient

- Mibelle AG Biochemistry - MonaJuvent Nu
- Puredia - Omega Omega-7 FFA
- SunWay Biotech - ANKASCIN 568

### Weight Management Ingredient

- IMCD - ProGo
- Monteloeder by Suannutra - Metabolaid
- Phynova - Reducose

### Nutricosmetic Ingredient

- ACTIV'INSIDE - Hair'Inside
- Mibelle AG Biochemistry - DracoBelle Nu
- Puredia - CyanthOx 80 CWS

### Most Innovative Consumer-ready Nutraceutical Finished Product

- AronPharma - Forminol Gummies
- Azelis Group - Low-temperature saffron gummy
- Kaneka Ubiquinol Europe with Eqology - Pure Arctic Oil (POA) Heart & Energy
- RONDOLINO - Black Gemma di Salute

### Sustainability

- Givaudan France Naturals - Agropoles Platform
- Nordic Bioproducts - Carbon-smart microcrystalline cellulose
- Puredia - Vertically integrated production and manufacturing of sea buckthorn ingredients



# Fine Foods at Vitafoods Europe 2026: Shaping The Future Of Nutraceuticals

Fine Foods will present innovative nutraceutical concepts at Vitafoods Europe 2026 in Barcelona, focusing on biotics, GLP-1 support, and longevity solutions. As an "Invisible Expert," the company highlights its role as a strategic partner delivering science-based, market-driven development and manufacturing solutions. Participation at this leading global event reinforces Fine Foods' commitment to shaping the future of the nutraceutical industry.



The nutraceuticals sector will meet at one of the year's most important events: Vitafoods Europe in Barcelona 5-7 May. The event offers a chance to consider recent market changes. Fine Foods & Pharmaceuticals N.T.M. S.p.A. - an Italian independent Contract Solutions Development & Manufacturing Organization (CSDMO) specialising in the contract development and manufacturing of products for the nutraceutical, pharmaceutical, and cosmetics industries, with a customer-centric, service-oriented philosophy, listed on Euronext STAR Milan - reaffirms its role as an Invisible Expert and strategic partner for companies seeking to advance innovation within the sector in the coming years.

## Barcelona: the new global nutraceutical industry hub

Vitafoods Europe has been the global hub for the nutraceutical industry for more than 20 years. The 2026 conference, set against the vibrant backdrop of Barcelona, promises to be the most ambitious yet with more than 30,000 attendees, 1,600 exhibitors, and participants from over 135 countries are expected. The fair is a dynamic platform to explore innovations, engage with leading industry professionals, and access resources from a global network of more than 100 distinguished experts and speakers. Barcelona offers industry professionals access to thousands of ingredients, raw materials, and functional solutions, fostering strong partnerships throughout the production chain. Amid ongoing innovation and top-level networking, Fine Foods plays a key role in shaping the future of well-being.

## Fine Foods' "Invisible Expert" approach

The Group will be at Barcelona in Hall 3, Stand G64, presenting a unified strategy that integrates its Nutra, Pharma, and Cosmetics Business Units. Fine Foods will reinforce its position as an Invisible Expert: a strategic industrial partner working discreetly without a direct shelf presence. The company offers scientific, technological, and production expertise to advance its customers' brands, simplifying complex development and manufacturing processes into practical, effective solutions. By anticipating market trends and turning them into unique, high-quality, safe products, Fine Foods accompanies customers throughout their journey, from needs to solutions.

## Fine Foods offering

Fine Foods' innovation, guided by the "from needs to solutions" approach, will showcase products at Vitafoods built around three key principles driving growth in today's nutraceutical market.

### 1. Biotics: Beyond standard products





## 2. The GLP-1 ecosystem: Supporting the consumer

GLP-1's rising popularity is transforming weight management. Food supplements are important in supporting consumers on their journey. Fine Foods created unique, forward-thinking formulations tailored to these consumers' requirements, helping them during each phase of the physiological and metabolic change.

## 3. Longevity: A holistic approach to longevity

Increasing life expectancy is changing the focus of societies and businesses. An increasing number of people are investing early in products to achieve a longer and healthier life. In response to the evolving consumer landscape, Fine Foods established a thorough and cohesive strategy to promote longevity. This approach addresses cellular health, optimises bodily function, and safeguards skin against external stressors, combining nutraceutical and cosmetic expertise for overall well-being.

The Barcelona event offers a unique chance to see how industrial robustness and scientific research combine to create advanced services that address modern well-being and set standards of excellence for future markets.

The biotics market is booming, with growth forecast at a 4.5% CAGR over 2026–2031. However, the wide range of products available makes it difficult for brands to stand out. Fine Foods addresses this challenge by reporting the findings of an internal efficacy study performed on a product from its Biotic3® range. The results of this study underscore the Group's technical proficiency and illustrate Fine Foods' capacity to assist customers in substantiating scientific rationales with efficacy studies, which is a factor increasingly critical for achieving commercial objectives.



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# Meet Lallemand Health Solutions at Vitafoods Barcelona 2026

Lallemand Health Solutions will present its latest science-backed biotic innovations at Vitafoods Barcelona, highlighting new clinical data and expanded solutions across women's health, cognition, immune health, and healthy aging. The company's growing portfolio of probiotics and postbiotics is designed to help brands differentiate with clinically documented, market-ready ingredients aligned with evolving consumer needs. These new developments reinforce Lallemand Health Solutions' strategic focus on microbiome-based innovation and targeted health benefits across key life stages.



Lallemand Health Solutions will showcase its latest science backed biotic innovations at **Vitafoods Barcelona**, reaffirming its commitment to clinically documented, market ready solutions for human health.

At this year's event, Lallemand Health Solutions will highlight new research and expanded offerings across **women's health, cognition, immune health, and healthy aging**, supporting brand partners looking to differentiate through robust science, regulatory readiness, and meaningful consumer relevance.

## Probiotics for women's health: targeted solutions across life stages

Women's health remains a high growth, innovation driven category, with increasing demand for evidence-based, life stage specific solutions. Lallemand Health Solutions will present a strengthened women's health portfolio built on **clinically documented probiotic strains** addressing pregnancy, intimate

health, digestive comfort during menstruation, and beyond.

- **Prenatis™**, evaluated in a large clinical trial involving **180 pregnant women**, was shown to **help reduce diagnosed maternal infections and to support the early establishment of a healthy infant gut microbiome**, including in C section delivered newborns.
- **Lacidofil®** has demonstrated benefits in supporting microbial balance around C-section delivery, particularly when taken proactively, helping mitigate antibiotic associated disruptions.
- For intimate health, **L. plantarum Rosella**, one of the most extensively studied strains in this area, supported by six clinical studies involving over 800 women, has shown its ability to support vaginal microbiota balance for recurrent vulvovaginal candidiasis (rVVC) following oral administration.
- Beyond intimate health, **B. bifidum Rosell® 71** has demonstrated benefits for **digestive comfort**



Come meet the team



5-7 May 2026  
Barcelona, Spain  
Booth 3G146

LALLEMAND HEALTH SOLUTIONS



during menstruation, notably by reducing bloating across menstrual cycles.

Together, this body of clinical evidence illustrates the central role of **microbiome targeted probiotics in supporting women's health across key life stages** and responding to unmet needs in a fast evolving category.

### Mental health: new clinical data on cognitive capacities

Lallemand Health Solutions will also unveil a **new cognitive health offer** supported by a recent clinical study conducted in **action video gamers taking Cerebiome®**. Preliminary results demonstrated **measurable improvements in cognitive abilities**, including attention-related measurements:

- Decrease in reaction time
- Improvement in processing speed

These findings open new perspectives for **cognitive capacities**, expanding the company's science driven mental health portfolio.

### Healthy aging: introducing Cerenity™

Healthy aging represents another major strategic focus at Vitafoods 2026. Lallemand Health Solutions will highlight **Cerenity™**, a flagship probiotic solution designed to support **mobility, strength, and quality of life** through modulation of the **gut-muscle axis**.

"Cerenity™ reflects our commitment to supporting healthy aging from within, through clinically documented microbiome solutions," says **Camille Binachon**, Marketing Group Manager, Healthy Aging.

In a recent clinical study, **Cerenity™** demonstrated **beneficial effects on physical performance and quality of life** in aging populations. In addition, the healthy aging portfolio continues to expand with solutions targeting **cardiovascular and cognitive health**, providing comprehensive support for aging well.

### Award winning postbiotic Immuse® for immune health

Immune health will also take center stage, with **Immuse®**, the most documented postbiotics for immune support. Last year, Lallemand Health Solutions announced a **strategic partnership with Kirin Holdings Company, Limited** to expand global visibility of this clinically supported solution.

"Immuse® addresses growing demand for reliable, science backed immune solutions applicable to daily health, sport, and skin health," says **Romane Maillet**, Marketing Group Manager, Postbiotics.

Industry partners are invited to **meet the Lallemand Health Solutions team at booth #3G146** to explore these innovations in detail, discuss formulation and market opportunities, and experience **Fizz-Biotics™** by Lallemand, a playful, sparkling sensory experience designed to elevate consumer experience.

### For more information:

[www.lallemand-health-solutions.com](http://www.lallemand-health-solutions.com)

# Prinova Showcases Everyday Wellness Solutions

Prinova will focus on consumers' everyday health and wellness needs at Vitafoods Europe, as it showcases a range of new whole body wellness concepts.



The leading supplier of functional ingredients and manufacturing solutions will highlight its capabilities in categories including sports nutrition, gut health and women's health. New concepts on show at the Prinova stand (3C104) will include:

- An **Everyday Radiance beverage** targeting longevity and women's health. Flavoured with maracuja and pineapple, it includes marine collagen and bioactive minerals from the Aquamin range. This balanced blend brings a 'beauty from within' concept into an everyday wellness format.
- An **Everyday Harmony gut health beverage** with a ginger lime mojito flavour featuring prebiotic plant fibres enhanced with vitamins D, B6 and B12. This refreshing functional drink is the perfect addition to daily routines to support digestive health and immunity.
- An **Everyday Protein beverage** based on clear pea protein and flavoured with dragon fruit and kiwi. The crisp, juice-like drink is ideal for post-workout recovery, and for consumers seeking a plant-based solution to boost their daily protein intake.

Prinova will also highlight its branded products, including clinically supported ingredient Citrapeak™, a 100% soluble form of hesperidin to unlock your pre-workout pump.

James Street, Global Marketing Director at Prinova, said: "Consumers no longer compartmentalise health and wellness, but incorporate them into their daily lives. Whether it's maintaining gut health, sharpening cognitive wellbeing, or upping daily protein intake, the key is making it as easy as possible for people to achieve their wellness goals by combining high-quality functional ingredients that taste great in a convenient way. With these new concepts, we're demonstrating what's possible when you identify the trends, then work hand-in-hand with R&D and in partnership with customers to focus on the everyday consumer."

For more information: [www.prinovaglobal.com](http://www.prinovaglobal.com)

# Ingood by Olga Highlights Cellular Longevity With Sulfodyne®

At Vitafoods Europe 2026, Ingood by Olga will unveil, an innovative longevity-focused concept built around Sulfodyne®, the only active, stable and patented form of sulforaphane derived from broccoli seeds.



As longevity continues to emerge as a core pillar of health and nutrition innovation, with 57% of global consumers stating that ageing well is now a higher priority than five years ago and the longevity and healthy ageing supplements segment growing at close to 8% annually worldwide, the market is shifting from cosmetic anti ageing approaches toward science driven solutions that support health span and cellular function.

Powered by Sulfodyne®, Ingood by Olga addresses this growing demand with a science and insights driven healthy ageing approach, centred on cellular health, oxidative stress management, and the support of the body's natural defence mechanisms.

## Oxidative stress and inflammation: key drivers of cellular ageing

Cellular ageing is closely linked to two fundamental biological processes: oxidative stress and chronic inflammation. With advancing age and modern lifestyles, these mechanisms tend to become dysregulated, leading to biological imbalances that contribute to cellular damage, accelerate the ageing process, and compromise overall well being.

Excessive oxidative stress and persistent inflammation are now recognised as underlying drivers of cellular dysfunction and reduced physiological resilience, making their control essential for healthy ageing.

## The Nrf2 pathway: a central longevity lever that declines with age

At the core of cellular protection lies the Nrf2

pathway, widely regarded as a pillar of healthy ageing.

The Nrf2 pathway is the master regulator of cellular defence, controlling the activation of antioxidant, detoxification, anti-inflammatory and cytoprotective activities that help cells adapt and respond to daily stressors. As we age, its activity declines, weakening the body's antioxidant and detoxification capacity.

Supporting Nrf2 activation therefore represents a strategic leverage point to preserve cellular health and promote longevity.

## Sulfodyne®, titrated in sulforaphane: the gold standard for cellular protection

Sulforaphane is recognised as a reference molecule for Nrf2 activation. Unlike conventional broccoli extracts that deliver inactive precursors, SULFODYNE® by Ingood by Olga provides sulforaphane directly in its free, active and stabilised form, without requiring enzymatic conversion in the body.

Thanks to its patented process, Sulfodyne® offers:

- Natural, active and stabilised sulforaphane
- High bioavailability of 70%, up to 7 fold higher than glucoraphanin based broccoli extracts<sup>1</sup>
- Low inter individual variability, ensuring consistent biological effects

Through direct Nrf2 activation, Sulfodyne® supports key healthy ageing mechanisms, including antioxidant defence, oxidative stress reduction, modulation of inflammatory signalling and overall cellular protection.<sup>2,3,4,5,6</sup>

**ingood**  
INGREDIENTS BY *olga*

# SULFODYNE®

The only active & stable sulforaphane form

Power your cells. Unlock Longevity.

Sulforaphane detox activity: up to +89% via glutathione enzymes activation

CLINICAL STUDY<sup>1</sup>

Join us at Vitafoods Europe Booth 3.J154D

Vitafoods Europe **V**  
The world's nutraceutical event  
May 5-7, 2026 Barcelona

1: Riedl et al., 2008

## Sulfodyne® for cellular protection and longevity

Sulfodyne® supports longevity through a multi pillar approach targeting the fundamental mechanisms of cellular ageing. By acting at the core of cellular defence via Nrf2 pathway activation, Sulfodyne® helps maintain cellular integrity and long term resilience:

- Antioxidant defence: activation of the Nrf2 pathway helps protect cells against free radicals and reactive oxygen species (ROS), reducing oxidative stress.<sup>4,6,7,8</sup>
- Anti inflammatory activity: modulation of inflammatory responses supports control of chronic low grade inflammation, a key contributor to accelerated cellular ageing.<sup>6</sup>
- Cellular energy & mitochondrial support: improvement of mitochondrial function and integrity, essential for maintaining efficient cellular energy production.<sup>11</sup>
- Detoxification support: induction of phase II detoxification enzymes, including glutathione enzymes, supporting the elimination of toxins and xenobiotics such as atmospheric pollutants, and helping reduce cellular toxic burden for long term cellular health.<sup>4, 6,7,8,9</sup>
- Protection against skin ageing: protection against UV induced skin damage through antioxidant and anti inflammatory effects, combined with cytoprotective actions and support of skin anti ageing mechanisms, notably through activation of the apelin signalling pathway.<sup>12</sup>

## A comprehensive longevity concept focused on cellular health and energy

The *Sulfolongevity* concept introduced by Ingood by Olga at VitaFoods Europe illustrates a holistic healthy ageing approach, powered by Sulfodyne® as a cornerstone for cellular protection via the Nrf2 pathway. Complementary ingredients promoting longevity include coenzyme Q10, a NAD<sup>+</sup> precursor, and Regenerate™, a patented vegetarian collagen developed by Circul'Egg, supporting cellular energy and skin beauty.

Presented in a ready to mix stick format, this concept demonstrates Sulfodyne®'s ability to support premium longevity formulations, firmly grounded in science and fully aligned with current market expectations.

### References:

- <sup>1</sup> Fahey et al., 2016;
- <sup>2</sup> Briones-Herrera et al., 2018
- <sup>3</sup> Ruhee & Suzuki, 2020
- <sup>4</sup> Boddupalli et al., 2012
- <sup>5</sup> Ahmed et al., 2016
- <sup>6</sup> Romeo et al., 2024
- <sup>7</sup> Chen M et al., 2021
- <sup>8</sup> Riedl et al., 2008
- <sup>9</sup> Munday et al., 2008
- <sup>10</sup> Egner et al., 2014
- <sup>11</sup> Holmström et al., 2016
- <sup>12</sup> Du et al., 2025

# Biotexia™ Announces New Brand Identity

**Biotexia brings together complementary scientific expertise in biotics, polyphenols, peptides and lipids under a single, innovation-driven brand. The unified company aims to accelerate growth in the global supplements market while showcasing its clinically supported ingredients and new research at Vitafoods Europe.**

**B**iotexia has introduced its new brand identity as it prepares to showcase its clinically supported ingredient portfolio at Vitafoods Europe.

Biotexia is the new name for three health and nutrition businesses within ABF Ingredients that have merged. The companies previously operated as ABbiotek Health, Fytexia and Anzchem, each contributing unique expertise.

ABbiotek Health brings extensive experience in biotics that support the microbiome, including ABBC1, and in degrading histamine through its adiDAO enzyme. Fytexia offers leading capabilities in clinically supported polyphenols and peptides, with products like Promunel, Sinetrol® and DNF 10 in high demand. Anzchem contributes as a trusted legacy in fish oil lipids, deep knowledge of the APAC region, and a strong footprint in Australia and New Zealand.

As a unified brand, Biotexia delivers natural, science-backed ingredients across four key areas: metabolic, immune and digestive health, while also innovating to support healthy ageing and vitality. The merger and new name launch are part of a strategy for growth in supplements markets.

Laurent Hubert, CEO of Biotexia, said: "The primary reason for the creation of Biotexia was to bring together our expertise to serve our customers at a time when the supplements industry is undergoing exciting shifts. Each of our three former businesses offered something valuable, and by bringing them together we will be able to innovate and share our scientific expertise more effectively. Moving forward as Biotexia, our goal is to expand and play an active part in the continuing evolution of the global wellness market."

After many years of attending Vitafoods Europe as separate businesses, Biotexia will make its debut as a unified brand at Stand 3B6. As part of the Vitafoods education programme, Biotexia will sponsor the Weight Management Spotlight on 7 May, featuring insights on flagship ingredients DNF 10, a peptide studied for its role in appetite regulation, and Sinetrol, a natural citrus polyphenol complex researched for its ability to increase resting energy expenditure and promote lipolysis. The company will also present a dedicated session on 6 May in the Nutra-ceutical Theatre, exploring the science behind the functional enzyme DAO and showcasing adiDAO, a diamine oxidase enzyme developed to support the metabolism of dietary histamine in the gastrointestinal tract.



For more information: [www.biotexia.com](http://www.biotexia.com)

# Arla Foods Ingredients Targets GLP-1 Companion Nutrition

Arla Foods Ingredients has developed new solutions to meet the needs of users of GLP-1 anti-obesity medications. The high-protein, nutrient-dense application concepts will be showcased at Vitafoods Europe in Barcelona.



Originally developed to treat diabetes, GLP-1 receptor agonists (commonly known as GLP-1s) have re-shaped the weight management market. Among consumers actively trying to lose weight in 2025, 11% globally<sup>1</sup> and 18% in the US<sup>2</sup> reported using them. These numbers are expected to rise significantly as GLP-1 availability increases, tablet formats emerge and prices fall.<sup>3</sup>

However, GLP-1 medications are associated with side effects. Following traditional weight management interventions, such as diet or bariatric surgery, lean muscle typically comprises 25% of the total mass lost, but this can increase up to 40% with GLP-1 use.<sup>4,5,6</sup> Additionally, up to 76% of GLP-1 consumers experience gastric discomfort such as stomach pain, nausea, constipation, diarrhoea and loss of appetite.<sup>7</sup>

To demonstrate how manufacturers can meet the

growing demand for GLP-1 companion nutrition that helps manage these side effects, Arla Foods Ingredients has developed new high-protein, functional concepts.

Featuring the high-quality Nutrilac<sup>®</sup> and Lacprodan<sup>®</sup> BLG-100 protein solutions, they deliver all the essential amino acids for muscle health in nutrient-dense formats. The concepts also incorporate probiotics / cultures from Novonesis, a global leader in bio-solutions, to support digestive well-being.

The concept includes the following great-tasting formats suitable for reduced appetites:

- A fermented, high-protein shot featuring Nutrilac<sup>®</sup> ProteinBoost, offering 10g of protein per 70ml serving. Low in fat and lactose-reduced, it has no added sugar
- A fermented, high-protein drinking yoghurt featuring Nutrilac<sup>®</sup> ProteinBoost and Nutrilac<sup>®</sup> MFGM.



The lactose-reduced recipe provides 20 g of protein per 200 ml serving.

- A fermented, high-protein spoonable yoghurt featuring Nutrilac® ProteinBoost, Nutrilac® YO-7700, and Capolac® milk minerals. Delivering 20g of protein per 120 g serving, it is high in calcium, low in fat and lactose-reduced.
- A high-protein water-based shot for ambient storage targeting health and medical nutrition. Featuring Lacprodan® BLG-100, it provides 21 g of protein per 100 ml serving, and is free from fat and sugar and low in lactose.

Anne Widart, Chief Commercial Officer of Arla Foods Ingredients, said: "GLP-1 companion nutrition is a rapidly growing category, with considerable untapped opportunities for dairy manufacturers. Anti-obesity medications are creating a market for more nutrient-dense foods that are high in protein to protect lean muscle mass and are easy to digest. Featuring our specialty proteins, these new concepts can help manufacturers realise that potential. Delivering all the essential amino acids vital for muscle health, they also support gut comfort, and the small serving sizes and great taste appeal to smaller appetites."

Arla Foods Ingredients will showcase the GLP-1 companion nutrition solutions at Vitafoods Europe in Barcelona (5-7 May, BOOTH #3G156) alongside two additional concepts:

- An aerated protein bar solution delivering a light, indulgent eating experience and high quality milk proteins. Made with Nutrilac® PB 8420, AirBar showcases exceptional whipping capacity for stable air incorporation, creating a soft, fluffy texture that stays stable during processing and shelf life
- Ready-to-stir medical nutrition powder solutions with a refreshing taste, no bitterness and low astringency. Made with Lacprodan® BLG-100 Acidic, they offer low viscosity without gelling, even at high protein concentrations, and excellent solubility in cold or warm water or regular foods and drinks.

## References:

- <sup>1</sup> Euromonitor International, The GLP-1 revolution: insights for food and beverages, 2025
- <sup>2</sup> Innova Market Insights, The GLP-1 effect: redefining food, weight & health in the US, 2025
- <sup>3</sup> Euromonitor International, The GLP-1 revolution: insights for food and beverages, 2025
- <sup>4</sup> Chaston et al. Changes in fat-free mass during significant weight loss: a systematic review. *International Journal of Obesity*, 2007;31:743
- <sup>5</sup> Wilding et al. (2021). Once-weekly semaglutide in adults with overweight or obesity. *New England Journal of Medicine*, 2021;384(11):989
- <sup>6</sup> Jastreboff et al. (2022). Tirzepatide once weekly for the treatment of obesity. *New England Journal of Medicine*, 2022;387(3):205
- <sup>7</sup> Blundell et al. Effects of once-weekly semaglutide on appetite, energy intake, control of eating, food preference and body weight in subjects with obesity. *Diabetes, Obesity and Metabolism*, 2017;19(9):1242-1251

## For more information:

[www.arlafoodingredients.com](http://www.arlafoodingredients.com)

# Gelita Showcases Collagen Solutions for Active Ageing

**Gelita will showcase collagen-based nutrition for ageing athletes and women's health, featuring Bioactive Collagen Peptides (BCP®) and introducing Curaderm® for body barrier support and repair.**

Interest in sports nutrition for ageing consumers continues to grow as more people remain physically active well beyond the age of 40. At the same time, declining collagen synthesis can affect the resilience of tendons, joints, bones and muscles. Gelita's Bioactive Collagen Peptides - including Tendoforte®, Fortigel®, Fortibone®, PeptEndure® and BodyBalance® - support targeted nutritional concepts designed to support structural tissues of the musculoskeletal system and help maintain mobility, recovery and performance.

Women's health is another focus area for Gelita at Vitafoods Europe. Age-related changes in skin structure are driving demand for targeted, beauty-from-within solutions. Additionally, as bones become increasingly fragile, particularly after menopause, there is an increased risk of osteoporosis. Specific Bioactive Collagen Peptides support skin health (Verisol®), bone density (Fortibone®) and joint mobility (Fortigel®), offering manufacturers targeted ingredients for the expanding women's health market.

Making its first-ever appearance at a trade show is Curaderm® - a Bioactive Collagen Peptide developed for applications that support skin healing, atopic-prone skin and gum health. It is the first collagen peptide with scientifically substantiated results that promises evidence-based positioning for innovative skin and gum care concepts.

Visitors to the Gelita booth will also learn about its Softgel Specialty Portfolio solutions for revolutionary rapid fill release, truly enteric soft capsules, leaking prevention or avoiding cross-linking. This portfolio provides developers of supplements with a comprehensive toolbox for ultimate flexibility to realize their desired fill release profiles.

## Scientific insights at Vitafoods

Visitors interested in the science behind Gelita's collagen solutions can attend several expert sessions:

Vitafoods Conference - Pushing Limits: The Science and Real-World Impact of Bioactive Collagen Peptides in Performance Sports (Wednesday, May 6, 10:55) Presenter: Stephan Hausmanns, Vice President Global Market Management Collagen Peptides, and marathon runner Erik Hille.

New Ingredients Theatre - Collagen Myth Busting: Separating Facts from Fiction (Tuesday, May 5, 15:30) Presenter: Martin Walter, Category Manager, Healthy Ageing & Sports Nutrition and Outer Body Barrier Repair Begins Beneath the Surface: Unlocking New Opportunities in Skin & Oral Care with Targeted Bioactive Collagen Peptides (Wednesday, May 6, 13:30) Presenter: Stephan Hausmanns, Vice President Global Market Management Collagen Peptides.

In addition to ingredients, Gelita will also present ready-to-market supplement concepts developed by its subsidiary Gelita Health. Their turn-key solutions allow nutraceutical brands to accelerate product development and bring collagen-based innovations to market more quickly.

**For more information:** [www.gelita.com](http://www.gelita.com)



# Fucoxidant: A Scientifically Validated Prebiotic

Recognised as the global leader in fucoxidant science, Australian biotechnology company Marinova will be showcasing the latest marine-derived prebiotic at Vitafoods Europe 2026.



Fucoxidants are complex polysaccharides found naturally in brown seaweeds. High purity, certified organic fucoxidants have become ingredients of choice for market-leading dietary supplements, functional foods and beverages, skincare formulations and animal health products.

Sustainably sourced and clinically validated, Maritech® *Undaria pinnatifida* extract is a multifunctional marine ingredient that has been extensively studied for its gut and digestive health, immune support, healthy ageing and inflammatory response benefits. Its wide-ranging gut health properties have been further extended, with scientific validation confirming the ingredient is a prebiotic.

The validation is opportune timing for the global prebiotics market. As consumers increasingly recognise the importance of gut microbiota, demand for probiotics, prebiotics and postbiotics continues to rise. The prebiotics market is a rapidly evolving market segment, particularly fuelling innovation in nutraceuticals and in functional foods and beverages. A recent report published by Fortune Business Insights predicts the global prebiotic market alone will grow from USD 12.95 billion in 2026 to USD 38.41 billion by 2034, exhibiting a CAGR of 14.55%.<sup>1</sup>

Creating market confusion in recent years however, has been the inconsistent terminology surrounding prebiotics, including both their definition and formal identification. In 2025, the International Probiotics Association (IPA) formally adopted a prebiotic definition utilised by the International Scientific Association for Probiotics and Prebiotics (ISAPP): 'A substrate that is selectively utilised by host microorganisms conferring a health benefit'.<sup>2</sup> The adop-

tion of the definition by the IPA signifies their strong commitment to advancing global scientific clarity and regulatory alignment.

The subsequent publication of criteria to classify compounds as prebiotics now provides a framework by which to substantiate potential candidates.<sup>3</sup> "Marinova welcomed the 2025 introduction of criteria for scientifically validating prebiotics," said the company's Sales & Partnerships Director, Mr Rod Shelley. "The criteria provide assurance to both formulators and consumers alike that compounds are validated prebiotics. It is a development that reduces ambiguity in the marketplace, whilst simultaneously enhancing trust."

Utilising five key criteria, Maritech® *Undaria pinnatifida* extract has now been scientifically validated as a prebiotic. The extract has been shown to:

- Improve microbial diversity
- Support beneficial bacteria and reduces less favourable bacteria
- Support the production of short-chain fatty acids
- Be fermented by intestinal microbiota
- Resist digestion before reaching the large intestine

Mr Shelley highlighted 2025 research that provided the final evidence required for the innovative marine extract to be confirmed a prebiotic.<sup>4</sup> "The study utilised faecal samples from healthy human donors within a validated *in vitro* gut model. This allowed us to explore the effects of Maritech® *Undaria pinnatifida* supplementation on the human colonic microbiome."

"Maritech® *Undaria pinnatifida* extract is an excellent choice for formulators looking for a high pu-





urity, certified organic, scientifically validated prebiotic," said Mr Shelley. "In addition to its beneficial gut health properties, it is a multifunctional ingredient also offering valuable support for immune and inflammatory responses."

"It should also be noted that validation as a prebiotic should only come after a compound has been determined to be safe for oral application," explained Mr Shelley. "Maritech® *Undaria pinnatifida* extract is well supported by safety data, including having attained FDA-notified GRAS status and EU Novel Foods approval – in addition to regulatory approvals in other global territories."

Further to the market opportunities arising from Marinova's extensive research and development program, Mr Shelley highlighted the benefits of the company's exclusive fucoïdan extraction processes. "Marinova's proprietary aqueous extraction technology ensures its fucoïdan extracts are unadulterated in chemical structure and free from solvent residues. The mild, aqueous process also ensures the resulting extracts comply with the most rigorous quality standards and regulatory requirements."

Maritech® *Undaria pinnatifida* extract is derived from wild *Undaria pinnatifida* seaweed hand-harvested from the pristine coastline of Patagonia. Marinova is the recipient of multiple international awards acknowledging its sustainable and transparent supply chain.

Marinova will exhibit at stand 3J227 at Vitafoods Europe, showcasing its range of branded fucoïdan ingredients. Maritech® organic fucoïdians are the world's only high purity, certified organic fucoïdians with global regulatory acceptance.

Maritech® *Undaria pinnatifida* extract will feature in the Vitafoods Europe New Ingredients Zone and be highlighted during the company's presentation on Wednesday May 6 at 12pm in the New Ingredients Theatre.

**For more information:** [www.marinova.com.au](http://www.marinova.com.au)

## References

<sup>1</sup> [www.fortunebusinessinsights.com/prebiotics-market-102286](http://www.fortunebusinessinsights.com/prebiotics-market-102286)

<sup>2</sup> [www.ipa-biotics.org/prebiotics](http://www.ipa-biotics.org/prebiotics)

<sup>3</sup> Saville SH, Younes JA, Paraskevagos G, Venema K. The prebiotic landscape: history, health and physiological benefits, and regulatory challenges – an IPA perspective part 1. *Benef Microbes*. 2025 Jan 13;16(1):1-33.

<sup>4</sup> Wimmer, B.C.; Dwan, C.; De Medts, J.; Duysburgh, C.; Rotsaert, C.; Marzorati, M. *Undaria pinnatifida* Fucoïdan Enhances Gut Microbiome, Butyrate Production, and Exerts Anti-Inflammatory Effects in an In Vitro Short-Term SHIME® Coupled to a Caco-2/THP-1 Co-Culture Model. *Mar. Drugs* 2025, 23, 242.

# Lallemand Bio Ingredients to Highlight Science-Driven Ingredients

**Lallemand Bio Ingredients, a leader in fermented functional ingredients, will present its latest science-backed solutions.**



At this year's event, the Health Ingredients team will highlight a portfolio of clinically supported, fermented ingredients addressing key health categories including metabolic health, immune health, women's health, healthy aging, beauty-from-within, gut health and vitamins and minerals.

Among the featured ingredients:

- **Re-Vaya™**, a proprietary specialty fermented combination developed to support metabolic health beyond weight management. Visitors will be able to taste Re-Vaya™ gummies at the Vitafoods Tasting Centre.
- **Veri-te™**, a patented fermentation derived resveratrol backed by human clinical research for key categories: healthy aging, women's health and beauty-from-within. Veri-te™ is a finalist for the NutraIngredients Ingredient-of-the-Year Award for Beauty-From-Within.
- **M-Gard®** yeast beta glucan, a well established ingredient recognized for its role in immune health support, with a strong scientific and commercial track record.
- **Gastro-AD®** postbiotic, proven in over 900 people, to relieve gastric discomfort including acid reflux and heartburn symptoms.

Lallemand Bio-Ingredients continues to invest in clinical research to support their partners with development of differentiated products. Throughout the event, the Health Ingredients Team will be available to discuss the science behind fermented ingredients and the clinical research supporting ingredient efficacy and positioning.

Vitafoods Europe remains the leading global event for the nutraceutical industry, bringing together ingredient suppliers, brand owners, and scientific experts from around the world. Lallemand Bio Ingredients looks forward to connecting with customers, partners, and media to share insights into the future of fermentation enabled health innovation.

**For more information:** <https://www.bio-lallemand.com>



# GC Rieber VivoMega Launches 90% High-Concentration Fish Oil for Advanced Omega-3 Formulations

GC Rieber VivoMega, a global leader in highly concentrated and sustainable omega-3 solutions, announces the launch of its VivoMega™ 90% TG Premium fish oil, a next-generation, highly potent omega-3 ingredient designed to support superior supplement formulations. It will debut the ingredient at Vitafoods Europe in Barcelona.



VivoMega™ 90% TG Premium fish oil delivers an exceptional concentration of omega-3 fatty acids, featuring 520 mg EPA and 310 mg DHA per gram, for a total omega-3 content of 900 mg/g (90%). This high potency enables supplement brands to formulate more efficient, high-strength products, all while reducing capsule size and enhancing formulation flexibility.

"We see a demand from supplement brands that want to deliver higher potency products without compromising user experience," said Ståle Sjøfting, Chief Commercial Officer. "With VivoMega 90% TG Premium fish oil, produced in natural triglyceride (TG) form for optimal bioavailability and absorption, we enable a more potent and pure omega-3 in less space, helping brands achieve high efficacy while maintaining excellent sensory profiles and smaller, easier-to-swallow capsules."

As part of the VivoMega premium portfolio, the new ingredient meets and exceeds international quality and purity standards, including industry-leading oxidation parameters and environmental specifications set by GOED and IFOS. This ensures stability, safety, and consistency across every batch.

VivoMega 90% TG Premium fish oil is designed for a wide range of applications, including softgels, capsules, and functional formats. GC Rieber VivoMega is a leader in sustainability and traceability practices, and its manufacturing facilities are aligned with the [EU Green Deal initiatives](#) and the [UN Global Compact guidelines](#). GC Rieber VivoMega is also [SEDEX-certified](#).

**For more information:** [www.VivoMega.com](http://www.VivoMega.com)



# Nutrisun Reveals Insight-Driven Concepts

Nutrisun introduces three consumer-driven supplement concepts designed to support mental clarity, beauty sleep and sustained energy in daily life. Backed by over 30 years of CDMO expertise in powder formulations, the company transforms market insights into premium, science-based solutions. These new concepts will be showcased at Vitafoods Europe 2026, highlighting Nutrisun's commitment to innovation, differentiation and faster product development.

**R**ooted in consumer understanding and market intelligence, Nutrisun will unveil three inspiring concepts all centered on the theme: being the best version of yourself. Each concept translates real consumer needs into tangible, premium supplement solutions that help brands stand out in an increasingly competitive nutrition and health market.

With more than 30 years of CDMO expertise in nutrition and health, Nutrisun has built strong know-how in powder galenics and consumer-centric formulation. This experience enables the company to transform insights into meaningful products, balancing scientific credibility, efficiency, and sensory excellence. From premium ingredient sourcing to formulation and industrialisation, Nutrisun supports partners at every step of development, ensuring quality and differentiation.

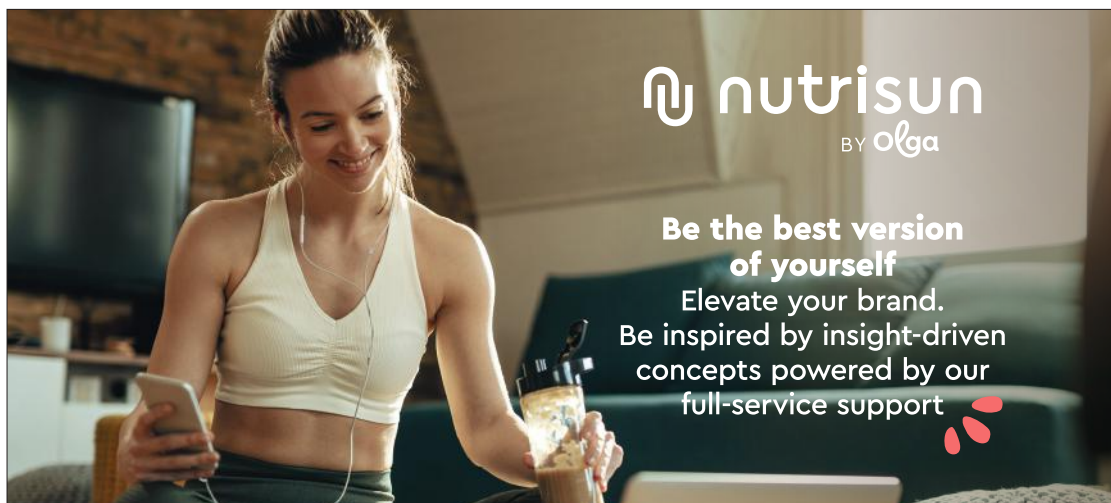
At Vitafoods Europe 2026, Nutrisun will present three concepts that embody this approach. The first, Find Myself, responds to the growing mental load experienced by modern consumers. With 67% of women reporting a high level of mental load, this comforting powdered supplement supports focus, mental clarity and emotional balance. In a black sesame flavour, this latte powder is mixed with almond or cow's milk, turning a simple break into a moment of realignment. Powered by SelectSieve® Zen by Roelmi HPC, clinically shown to promote mental relax-

ation during periods of high mental load, the concept helps calm the mind and sharpen focus without drowsiness.

The second concept, Eternal Beauty Sleep, explores the connection between rest, recovery and visible wellbeing. With 63% of consumers stating sleep plays a central role in beauty routines, this powdered night-time ritual supports skin beauty during sleep. In hibiscus and lychee flavour, it transforms the evening into a self-care ritual. Powered by Damasty® by Robertet and BeGrape™ Original by Groupe Berkem, the formula helps optimise night-time recovery to reveal radiant skin by morning.

Quiet Energy responds to mental fatigue at the end of the day, affecting 72% of adults. Designed for the "second day", this calamansi-flavoured powder delivers sustained mental energy in sparkling water without overstimulation. Powered by Zynamite® by Nektium, it provides fast, long-lasting mental energy without caffeine or sleep disruption, helping consumers stay energised while calm and present.

Alongside these concepts, Nutrisun introduces ready-to-market solutions for faster launches and inspiration-driven concepts powered by consumer insights. All offers are backed by full-service support, expertise in powder formulations and premium ingredient sourcing, reinforcing Nutrisun's commitment to creating products that resonate with consumers and perform in real markets.



Join us at  
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The world's nutraceutical event  
May 5-7, 2026 Barcelona

# Lubrizol Showcases Curcushine™ Gummy Concept

Lubrizol Nutraceuticals has created a new gummy application concept to highlight the formulation possibilities of its Curcushine™ microcapsules.



The advanced, scale-ready application concept will be showcased at Vitafoods Europe, where it will demonstrate how microencapsulated curcumin can perform in industrially relevant gummy formulations.

Each of the sugar-free pectin gummies delivers 100 mg of Curcushine™, Lubrizol's proprietary microencapsulated curcumin extract. They are flavored with natural orange and ginger, which perfectly complements the subtle turmeric flavor present in the gummies, and gently sweetened with maltitol and stevia – natural plant-based sugar substitutes.

"Beauty and wellbeing are integrating more and more," said Isabel Gómez, Global Marketing Manager for Lubrizol Nutraceuticals. "And while consumers are taking a proactive approach to maintaining their outer glow and inner comfort, they also want products that are natural and serve as an enjoyable part of their daily routines. The current rise in the rejuvenation trend clearly illustrates this growing demand. With Curcushine™ gummies, we've created a nutra-ready concept that is indulgent and connects directly with what consumers are seeking: simple, flavor-forward experiences that can help support radiant and lush-looking skin."

## A sweeter route to inner beauty

Curcumin is turmeric's key bioactive polyphenol compound. Traditionally venerated for multiple an-

ti-aging and wellness benefits, it has demonstrated potent antioxidant and anti-inflammatory properties that help counter the negative impacts of Reactive Oxygen Species (ROS) and advanced glycation end-products (AGEs) associated with collagen deterioration and skin aging.

Curcushine™ is a nutraceutical ingredient solution based on a patented microencapsulation process that transforms curcumin into a water-dispersible, highly bioavailable ingredient. This makes it suitable for inclusion in gummies and other convenient, on-the-go formats.

The new gummies are built on a sugar-free pectin base that reflects the shift toward plant-based and reduced-sugar choices. However, Curcushine™ has also been successfully evaluated in gelatin-based gummy formulations, and is versatile across gelling systems as well as applications beyond gummies.

Lubrizol's technology enables formulators to integrate curcumin more easily into everyday sugar-free snacks, beverages, and other products. Microencapsulation enhances the stability and integrity of the active ingredients while mitigating turmeric's characteristic flavor profile, letting brands offer sensory appealing products without compromising function. The new concept has been designed with scalability in mind and can be transferred directly to industrial production.

"Curcumin is widely recognized for its potential wellbeing and skin-support benefits," Gómez added.



"But its poor water solubility and naturally bold flavor have traditionally limited its use in consumer-friendly formats, especially gummies. We overcame those challenges by protecting our curcumin formulation inside powerful microcapsules."

### Science-backed nutricosmetic

A recent clinical study involving 63 healthy women volunteers demonstrated the stellar capabilities of Curcushine™ as a nutricosmetic, improving facial skin appearance and slowing down visible signs of ageing. Skin analysis via sophisticated imaging equipment revealed that a daily intake of the Curcushine™ for six weeks significantly reduced wrinkles, skin redness, and brown spots compared to a placebo. The Curcushine™ group also experienced improved skin luminosity, homogeneity, with less oxidative stress.

"One of the most exciting outcomes of our formulation trials was how mellow and appealing the flavor became once Curcushine™ was incorporated through microencapsulation," said Alan Connolly, R&D Manager at Lubrizol. "Curcumin naturally brings a sensory imprint, but encapsulation softens that significantly. It allows us to offer a harmonious flavor experience, and supports a wider range of fresh flavor concepts – in gummies and beyond – while also enhancing bioavailability."

At Vitafoods Europe in Barcelona Lubrizol will demonstrate how science, emotion and personalization can connect to meet diverse consumer needs. Its stand (#5B12) will include:

- A **Science Zone**, where visitors can discover how microencapsulation technology ensures better bioavailability and stability
- A **Corporate Zone**, which will showcase Lubrizol's innovation and credibility
- A **Sensory Zone**, where visitors can sample formats that connect science to pleasure, including glow lattes, gummies and dispersible powders
- A **Women's Health Growth Platform**, demonstrating how Lubrizol's solutions address real health needs across life stages, including energy, skin glow and menopause support
- A **Carousel of Personas**, where the experiences of five archetypal women will bring insights to life, demonstrating how personalization shapes science.

As well as Curcushine™, Lubrizol products on show will include:

- Lipofer™ (microencapsulated iron for superior absorption and wellness)
- Lipophytol™ (microencapsulated plant sterols for cholesterol reduction)
- Magshape™ (a bioavailable and highly concentrated magnesium solution that enables higher elemental magnesium delivery while maintaining good tolerability for consumers).

Prototype samples, flavor recommendations and technical assistance will be available on request.

### For more information:

[www.lubrizol.com/Health/Nutraceuticals](http://www.lubrizol.com/Health/Nutraceuticals)

# ACG to Spotlight Integrated Vegan Capsule System for Clean-Label Delivery

**ACG will showcase its clean-label vegan capsule system at Vitafoods Europe 2026, highlighting fully integrated solid-dosage innovation.**

As demand for transparency, safety and plant-based solutions accelerates, clean label is becoming a key driver of consumer trust. ACG is positioning capsule technology as a critical enabler of this shift, allowing brands to deliver simpler, more transparent formulations without sacrificing performance or visual appeal.

Unlike traditional dosage formats, which often rely on binders, coatings, sugars or animal-derived ingredients, capsules offer a cleaner alternative. Plant-based capsule formats in particular enable brands to deliver active ingredients with minimal additives, supporting the growing expectation for truly clean-label products.

ACG's approach centres on moving beyond individual ingredients towards fully integrated clean systems. By combining capsule technology with customisation and material innovation, the company enables brands to achieve clean-label credentials without compromise.

Anil Andrade, Vice President Global Sales at ACG Capsules, commented: "The future of clean is clear. Brands are no longer willing to compromise between performance, aesthetics and clean-through truly clean formulations."

At the heart of this system is ACGcaps™ H+, the world's first independently certified clean-label capsule, made using only cellulose and water. It is supported by ACG's broader capsule portfolio, designed to meet diverse formulation needs:

- ACGcaps™ HR – multi-purpose applications
- ACGcaps™ HL – liquid and semi-solid formulations
- ACGcaps™ HX – delayed-release solutions

Together, these solutions form a complete capsule system that supports flexibility while maintaining clean-label integrity.

Beyond the capsule itself, ACG enables customisation without compromise through:

- NTone – natural, plant-based colour solutions
- TSafe – titanium dioxide-free opacity
- Brandshield – vegan capsule printing technologies

This integrated approach allows brands to differentiate their products while remaining aligned with evolving regulatory and consumer expectations.

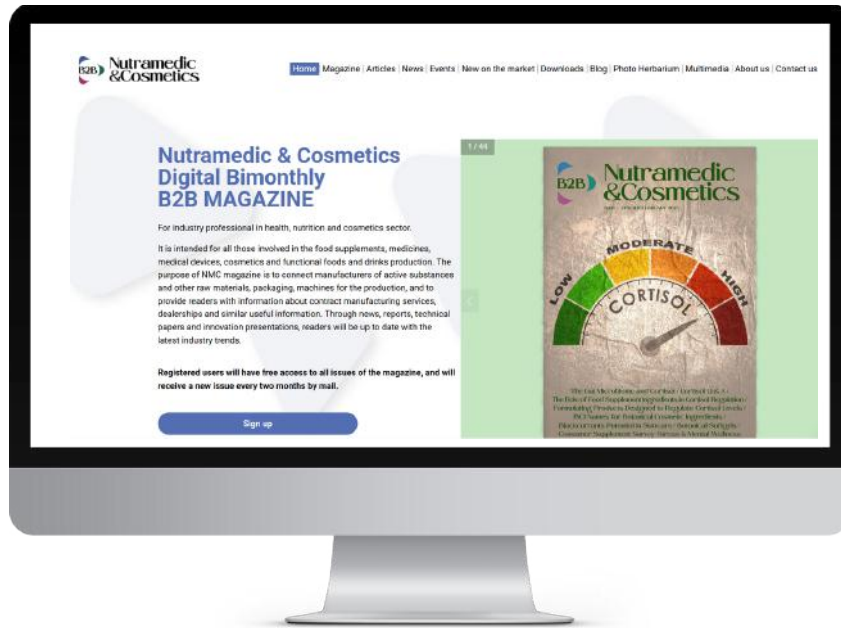
With Europe at the forefront of clean-label innovation, ACG believes regional brands will play a defining role in setting new global standards for capsule-based delivery systems.

Joris Dewitt, Vice President Sales, ACG Europe adds: "Europe is leading the shift towards clean-label supplements, with brands raising the bar on transparency and formulation standards. Capsule technology is central to that evolution, and we're proud to support customers at the forefront of this change."

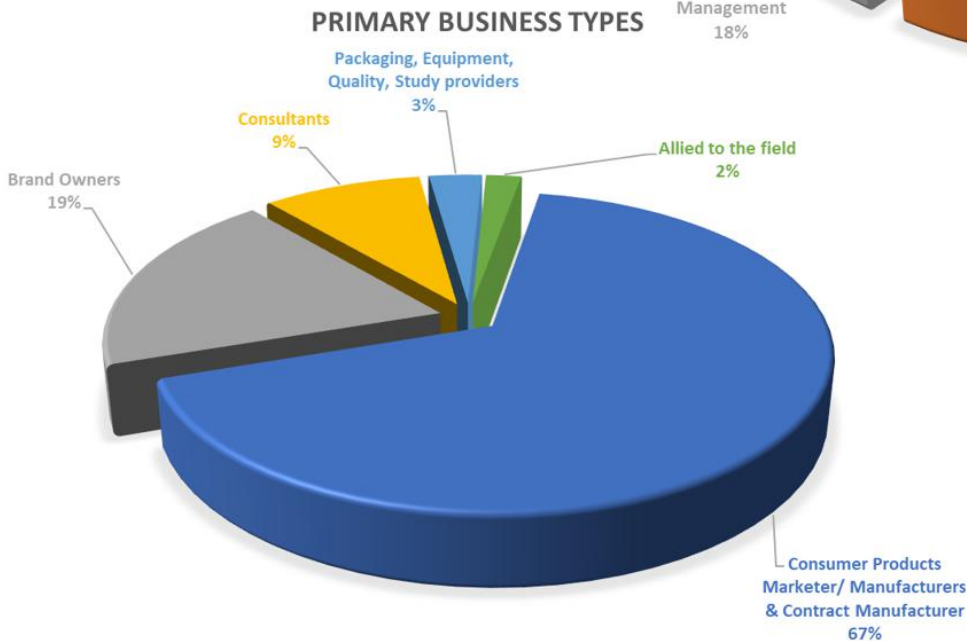
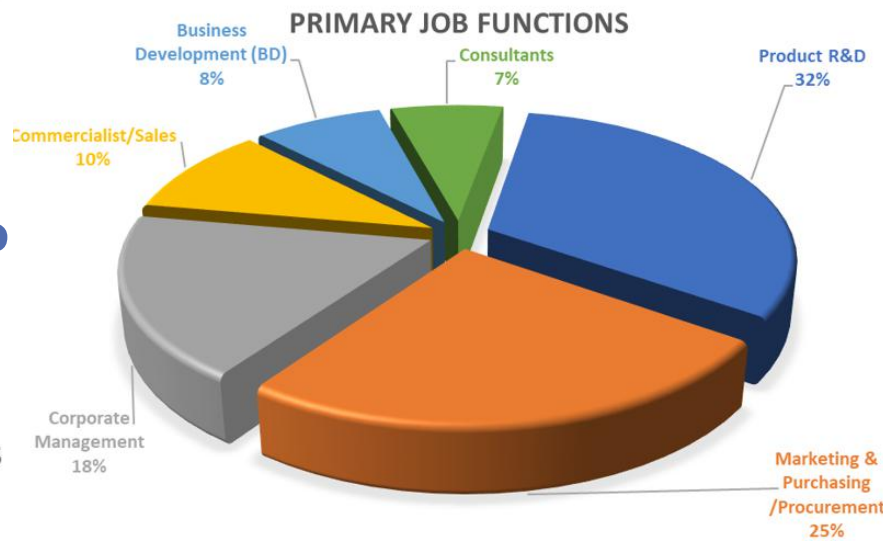




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