

QUERCEFIT® MULTI-TARGET & PHYTOSOME® TECHNOLOGY PLATFORM: A SUCCESSFUL PAIRING BY INDENA, PROTAGONIST @ SUPPLY SIDE WEST 2022

JOIN INDENA IN LAS VEGAS TO ALSO KNOW ITS LATEST NEWS ABOUT
ANTHOCRAN® PHYTOSOME® AND RELISSA™

Milan, 2nd November, 2022 – All its recent updates regarding leading products, proprietary delivery systems and the most recent developments on other important subjects such as sustainability: this is what Indena is taking to Supply Side West 2022 on 2nd and 3rd November, Mandalay Bay, Las Vegas, Nv Expo Hall, Booth 5265.

Indena will share with clients and experts recent developments of Phytosome®, Indena's historical Technology Platform aimed to optimize natural compounds, and will feature its latest products based on this technology such as: Quercefit®, Indena's quercetin Phytosome® which has proven effectiveness on multiple conditions, Anthocran® Phytosome® and Relissa™. Indena's approach to sustainability is another topic Indena will share with its clients at Supply Side West.

*"In the last few months, people, companies and experts are back to trade shows and events to meet again and to share knowledge, new concepts and trends in the nutraceutical world. And we're here again, at one of the most important trade shows, to confirm our important role in this industry, as we have been doing for over one hundred years, says **Daniele Giavini, Managing Director of Indena - USA** is an important market, and we're happy to introduce some of our most recent launches and innovative products at Supply Side West. Since several years people are taking care of their health with a holistic approach. This means they are oriented towards prevention, lifestyle and nutrition, and looking for high-quality supplements. Our botanical ingredients meet this demand, as they're recognised as very effective and safe, thanks to our commitment to research and to our state-of-the art production processes".*

PHYTOSOME®: INDENA'S DELIVERY SYSTEM TO ENHANCE THE POWER OF PHYTONUTRIENTS

Despite their potential for promising health benefits, botanical compounds often show poor water solubility and limited intestinal absorption, which usually hamper any significant oral bioavailability. Phytosome® – a proprietary Technology Platform developed by Indena – is the breakthrough 100% food-grade delivery system that optimizes the bioabsorption and pharmacokinetic profile of many natural actives, allowing our bodies to absorb them in the best possible way, compared to non-formulated ones. Today this is the most reliable and customizable solution in the nutraceutical field.

Phytosome® is formulated with natural dietary ingredients already existing in the human body (phospholipids) that act as vectors, dynamically reducing the self-aggregation of natural compounds. Functional dispersion allows natural compounds to interface efficiently with the gut's ecosystem in terms of absorption and microbiota interactivity. It thus optimizes bioabsorption without relying on pharmacological adjuvants or the structural modification of ingredients, maintaining tolerability and safety over time.

*"We're proud to present our updates on Phytosome® and on other important products, such as Quercefit®, Anthocran® Phytosome® and Relissa™ - comments **Cosimo Palumbo, Chief Operating Officer of Indena USA** -. As regards Phytosome®, we have pursued a continuous evolution and refinement of the original version, creating the most extensive scientific literature available on the subject and producing Phytosome® products at industrial scale while still guaranteeing that the natural component's matrix can be replicated, controlled and verified batch after batch. An incredible intelligence delivered globally in over 4 billion servings, able to enhance the power of phytonutrients. This is the result of 100 years of phytochemical expertise and botanical experience, combined with state-of-the-art technological equipment and constant striving for quality. And here at Supply Side West we're very glad to have the opportunity to also present our commitment and objectives in terms of sustainability, which we pursue to the benefit of our stakeholders, carefully cultivating our precious cycle: Nature, Technology, People - says **Palumbo**.*

The concept, working principles and benefits of Phytosome® are presented in Indena's new video available [here](#).

QUERCEFIT®: EXPLOIT QUERCETIN TO KEEP INFLAMMATION AT BAY

Our overall health relies on our immune system to fight and heal from pathogens, and natural ingredients that bolster immunity and quicken recovery time are in high demand. Quercetin is a flavonoid with multiple biological actions, but notorious for its poor bioavailability. Quercetin® is Indena's formulation of quercetin deriving from the flower buds of *Sophora japonica L.*, based on Phytosome® proprietary technology to optimize its biological absorption. Recent studies demonstrate that Quercetin® is able to modulate biological markers, typical in inflammatory conditions, in respiratory health, endurance and eye health and that it is an effective support for healthy aging, thanks to its senolytic action. That is why Quercetin® may be called a multi-target product, which can be of help for several conditions.

ANTHOCRAN® PHYTOSOME®: THE STRENGTH OF CRANBERRY TO SUPPORT URINARY TRACT HEALTH

Anthocran® Phytosome® is Indena's cranberry extract, a new health food ingredient based on Phytosome® formulation proprietary technology. Anthocran® Phytosome® boasts a unique phytochemical characterization, which makes it **the highest quality cranberry extract on the market**. In fact, it is standardized in proanthocyanidins (PACs: 6.0-9.0% UV-visible spectrophotometric contents - DMAC method) and contains the full polyphenol profile of natural cranberry, including flavonols, anthocyanins and phenolic acids. Recent studies have been carried out by Indena to verify that the complex mixture of proanthocyanidins (PACs), flavonols and phenolic acids contained in Indena's cranberry extract seems to level biofilm formation as in the case of *Candida albicans*. The clinical evidence shows that Indena's cranberry extract Phytosome® is a valid supplement for the support of urinary tract health, with a good tolerability profile.

RELISSA™: THE NEW EFFECTIVE STRESS RELIEF AND SLEEP AID

Relissa™ is a health food ingredient based on the formulation of lemon balm extract from *Melissa officinalis* with phospholipids to optimize dispersion in gastrointestinal fluids and biological performances.

Relissa™ is a proven sleep aid adjuvant, being effective in inducing sleep, reducing the time needed to fall asleep and improving the duration of sleep in preclinical models. Lately, there has been an increased interest in how the microbiome may influence our wellbeing, especially in the realm of mood and sleep. *Lactobacillus rhamnosus* - a bacteria able to colonize the gastrointestinal tract - has been proven able to improve night rest and rapid eye movement (REM) sleep, thanks to a positive influence over short-chain fatty acids (SCFAs) controlling the expression of genes responsible for sleepwake rhythms. Relissa™ has shown no negative interactions with *Lactobacillus rhamnosus*, thus safeguarding its beneficial effect.

Standardized in hydroxycinnamic acids (17-23% by HPLC) and analyzed for rosmarinic acid content, Relissa™ is the result of Indena's 100-year experience in botanicals and can boast a sustainable supply chain. Relissa™ can also be formulated in gummies, an increasingly popular solution on the market.

INDENA'S PRESENTATION AT SUPPLY SIDE WEST

Dr. Serena Tongiani, Chief Product Officer of Indena will talk about *Quercetin®*, *Quercetin Phytosome®*. *The multi-target ally for your physical performance*. 2nd November 3-3:30 pm, Supply Side Stage, Boot 5670

Visit Indena at Supply Side West 2022: Booth 5265

2nd and 3rd November, Mandalay Bay, Las Vegas, Nv Expo Hall

Indena is the leading company dedicated to the identification, development and production of high quality active principles derived from plants, for use in the pharmaceutical and health food industries. Backed up by a century of botanical experience, the company owns 100 patent families, has published more than 1000 scientific studies and co-operates with the world's most prestigious universities and private research institutions. Indena employs over 900 staff, investing a significant amount of its annual turnover in research, making this activity the key to its success. Headquartered in Milan, Indena has 4 production sites and 5 international branches throughout the world and manages sales in more than 80 countries. The company's experts communicate and interact constantly with the major international regulatory authorities and cooperate on the update of all the main pharmacopoeias.

CDMO activities are the priority in Indena's strategic vision. Today, Indena has a multipurpose GMP pilot plant equipped with reactor ranging from 1000 lt to 10,000 lt; a kilo lab LK2 to offer different capacities for products at the highest containment level (OEL 20 ng/m³ or OEB5); a large and a mid-size spray dryer working with organic solvents; a 20-liter hydrogenator being complemented by a 250-liter hydrogenator (ready at the end of 2022) to satisfy a wider demand for this kind of chemistry.

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