

THANKS TO CASPEROME® - INDENA'S BOSWELLIA PHYTOSOME® - KEEPING GUT HEALTHY IS NATURAL AND SAFE

A GOOD NEWS ESPECIALLY IN VIEW OF THE HOLIDAYS AND SUMMER TRAVELS

Milan, 27 July 2022 – In the summer, travelling abroad is the perfect chance to taste new food, but new culinary experiences may often put at risk people's gut health. Gut health already is a relevant issue all over the world. Just to give an idea, in the USA from 60 to 70 million people are affected by all digestive diseases¹, over 1 million residents in the USA and 2.5 million in Europe are estimated to have Inflammatory Bowel Disease² and Irritable Bowel Syndrome occurs in up to 15% of the United States population³.

From nature, a valid support may come from *Boswellia serrata*, and among Indena's innovative botanical extracts there is CASPEROME®: a whole natural, tested, standardized extract of *Boswellia serrata* enriched in the whole bouquet of terpenoid acids. Its composition includes 11 relevant boswellic acids, and closely matches the profile of the natural resin. Moreover, CASPEROME® is formulated with the Indena's proprietary Phytosome® delivery system, which makes natural ingredients more bioavailable and effective. CASPEROME® is a unique and tested formulation, able to enhance and optimize the delivery of terpenoid acids compared to unformulated extract⁴.

Indena's CASPEROME® has been proven as a natural support for gut health thanks to three human studies. Two of them showed that CASPEROME® supports healthy inflammatory response, maintaining physiological intestinal mobility, thus contrasting other unpleasant conditions such as bloating. A third study evaluated the effects of CASPEROME® usage over 6 months, confirming its efficacy, safety, benefits and excellent tolerability.

More recently, new clinical evidence⁵ showed the benefit potential of CASPEROME® being effective in preserving normal intestinal motility when in the hot season probable embarrassing gastrointestinal condition may occur: acute diarrhea.

The two most common causes of acute diarrhea are gastrointestinal infections or food poisoning, and viruses represent the most frequent etiologic factor. In the United States, 48 million people suffer every year from acute diarrhea due to acute food poisoning, and 2.5 million people die from acute diarrheal disease worldwide. CASPEROME® counteracts such embarrassing conditions.

"The randomized, double-blind, placebo-controlled trial showed that our CASPEROME® can normalize intestinal motility, thus counteracting the formation of loose and watery stools: in conditions when the risk of experiencing acute diarrhea may be higher, it significantly reduces the number of stools and duration of motility unbalance, along with associated secondary conditions – says Antonella Riva, Indena's Head of Product Innovation and Development -. Boswellia serrata extract can act as a Ca²⁺ channels modulator and CASPEROME® optimizes its delivery to the target organ: intestinal smooth muscles. Moreover, no side effects have been observed: CASPEROME® counteracts motility unbalance, without slowing down the transit rate, and this is a major advantage since other agents induce constipation".

Another important result from Indena's research activity, always aimed to find more and more innovative solutions for human wellbeing.

¹ <https://www.niddk.nih.gov/health-information/health-statistics/digestive-diseases>

² Eisenstein M. Nature 540, S98-S99

³ <https://www.hopkinsmedicine.org/health/conditions-and-diseases/irritable-bowel-syndrome-ibs>

⁴ Riva A. et al, Phytomedicine 2016, 25, 1375-1382

⁵ Giacosa, A.; Riva, A.; Petrangolini, G.; Allegrini, P.; Fazio, T.; Bernardinelli, L.; Peroni, G.; Rondanelli, M. in Nutrients 2022, 14, 1858.

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 250 lt to 10,000 lt (Stainless Steel, Hastelloy, Glass-lined); 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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