

ORGANIC CHAGA LIQUID EXTRACT

Product Information

Description:	Dual liquid extract made from 100% Chaga (<i>Inonotus obliquus</i>) conks. Extract contains 25% alcohol.
Country of Origin:	Finland
Certifications:	EU/USDA certified organic, vegan, gluten free
Extraction:	Made bioavailable through ultrasonic assisted water and alcohol extraction.
Dry mushroom to liquid ratio:	1:6

Materials used

Mushroom:	Chaga conks Botanical: <i>Inonotus obliquus</i> Only conks used (Chaga is not a fruiting body, but a mushroom conk)
Extraction solvents:	Water & ethyl alcohol (organic, kosher and gluten-free)
Origin of raw materials:	Chaga: Finland, foraging network Water: Finland Organic alcohol: Netherlands
Growing medium:	Organic birch (<i>Betula</i>)

Processing & Extraction

Processing of fruiting bodies:	Drying Chaga conks, grinding, ultrasonic assisted extracting, filtering, 3rd party lab testing
Ultrasonic Assisted Extraction :	Through ultrasonication, the mushroom (chitin) cell walls are broken in order to increase bioavailability of compounds in the liquid extract. Ultrasonic assisted water and alcohol extraction guarantees that our mushroom extracts have the full spectrum of bioactive compounds. ¹
Manufacturing location:	Finland, KÄÄPÄ Headquarters

Certificates

Certifying body:	European Organic Certifiers Council (EOCC)
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Quality Control

Microbiological range:

Total count of colony forming units (CFU)	<10,000 CFU/mL at 30 °C
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¹ <https://www.sciencedirect.com/topics/biochemistry-genetics-and-molecular-biology/ultrasound-assisted-extraction>

Heavy Metal range:

Arsenic	< 1.0 ppm
Cadmium	< 0.1 ppm
Mercury	< 1.0 ppm
Lead	< 1.0 ppm

Analytical values:

Batch specific microbiological and heavy metal analysis provided upon request.

Overview of Chaga

Chaga has been used for a long time for it's high levels of antioxidants², and to regulate gut microbiota³. Chaga has also been shown to inhibit oxidative DNA & RNA damage.⁴ A study confirms that Chaga grown in Finland tested to have the highest concentration of β -(1,3)-(1,6)-D-glucans compounds⁵. What was once considered to be folk medicine is now becoming more widely recognized for its impressive benefits.

Our foraging network harvests Chaga in organic certified forests of Lapland, Finland.

Bioavailable Compounds

- Triterpenoids
- Sterols
- Melanin
- Betulinic acid
- β -(1,3)-(1,6)-D-glucans

Chaga extract may

- Protect and support DNA⁶
- Protect against chronic inflammation⁷
- Scavenge free radicals to protect cells⁸
- Reduce growth of various cancers⁹

² https://www.istage.ist.go.jp/article/cpb/55/8/55_8_1222/_article

³ <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5309192/>

⁴ <https://www.ncbi.nlm.nih.gov/pubmed/15630179>

⁵ http://caod.oriprobe.com/articles/43332807/Comparison_of_component_from_different_species_of_Inonotus_obliquus.htm

⁶ <https://www.ncbi.nlm.nih.gov/pubmed/15630179>

⁷ <https://www.sciencedirect.com/science/article/pii/S014181301630229X?via%3Dihub>

⁸ <https://onlinelibrary.wiley.com/doi/abs/10.1002/pca.1225>

⁹ <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4388940/>

- Suppress tumor growth¹⁰
- Support immune system¹¹
- Anti-diabetic effects¹²
- Increase physical endurance¹³

Nordic Mushrooms

Why is it important to know *where your mushrooms come from*? Quality and product safety are everything when it comes to medicinal mushroom extracts. Finland tested for the purest air and water ever measured which guarantees high quality mushrooms.

Nordic Mushrooms certificate guarantees you and your customers that mushrooms have grown in a pure environment, and that only fruiting bodies were used in the process. This means an honest and potent mushroom product.

We take pride in using 100% Nordic Mushrooms.

¹⁰ <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4946216/>

¹¹ <https://thescipub.com/abstract/10.3844/ajpts.2007.10.17>

¹² <https://www.tandfonline.com/doi/abs/10.1080/14786410902751009?journalCode=gnpl20>

¹³ <https://www.sciencedirect.com/science/article/pii/S0254627215301266>