



BioBerb® offers clinically proven performance, formulation flexibility & superior berberine purity, ideal for brands & consumers seeking effective, low dose berberine supplementation.

BERBERINE BASICS

Berberine is a powerful plant-derived compound sourced from herbs such as goldenseal, barberry, and tree turmeric, also known as Indian Barberry native to Nepal and the Himalayas. It's gaining recognition for its ability to support metabolic health, energy regulation, and healthy ageing. Known for its antioxidant and anti-inflammatory properties, berberine interacts with key enzymes like AMPK, PKC, and SIRT1, important regulators of energy production, glucose metabolism, and immune balance. It also supports insulin function, gut microbiome diversity, and may stimulate GLP-1, a hormone involved in blood sugar control. However, traditional Indian Barberry - *Berberis aristata* - root requires high doses of Berberine (up to 2 g daily) to be effective, often leading to tolerability issues and multiple adverse events.

BIOAVAILABLE BIOBERB®

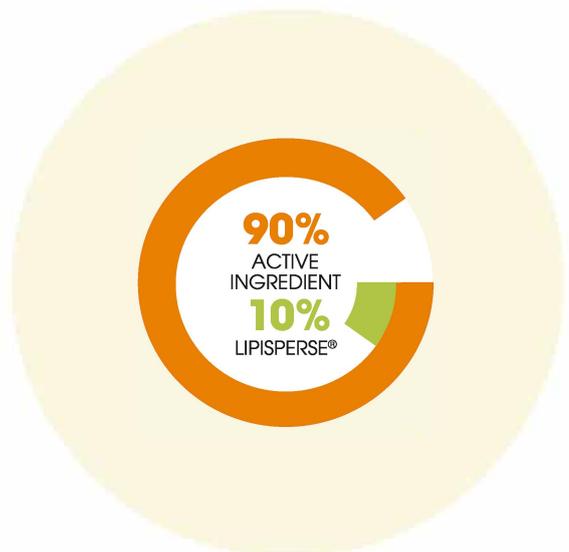
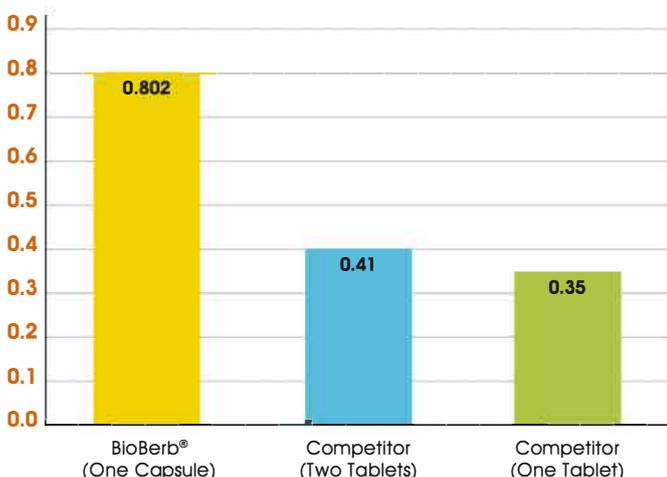
BioBerb® is a cold water dispersible (CWD) berberine powder, that breaks through traditional performance barriers unlocking the benefits of this powerful ingredient. BioBerb® made from purified *Berberis aristata* root delivers 63% active Berberine. Powered by LipiSpense® dispersion technology, BioBerb® significantly enhances berberine's absorption and bioavailability. Clinical studies show a single 188 mg dose of BioBerb® delivers 802 pg/mL of standard like for like, total berberine into blood plasma. This offers smaller tablets/dose size with a reduced risk of side effects.

LIPISPERSE® LOGIC

LipiSpense® works by converting lipophilic (oil-loving) crystals into hydrophilic (water-loving) particles, allowing them to disperse easily in water. This not only improves absorption but also protects the active ingredient from breakdown in the stomach's acidic environment. With only 10% input required, LipiSpense® enables a 90% *Berberis aristata* active load, the highest in a water-dispersible formulation.

Cmax (ng/mL) of Total Berberine

All dosage formats delivered 188 mg of berberine per dose



Lower doses, smaller tablets & fewer side effects, BioBerb® delivers effective, convenient supplementation by overcoming standard berberine's bioavailability challenges.



WHEN DISCUSSING BIOAVAILABILITY, SCIENTIFIC ACCURACY MATTERS

Claims like "10x more bioavailable" can be misleading without a clearly defined reference point. Is the comparison being made to the raw extract, a previous formulation or something else entirely? To truly understand how much of an ingredient is absorbed, we need to measure its concentration in blood plasma, which is usually expressed in ng/mL. This approach shows the actual bioavailability of the ingredient itself, not just how it performs relative to another version. It is the most meaningful way to assess how much reaches the blood stream and is available for biological activity.

PK Study - BioBerb® - Effect of LipiSperse® on increasing absorption of Berberine chloride extract in otherwise healthy participants - a randomised, double blind, cross over study.

BIOBERB® BENEFITS

- Better absorption & bioavailability than the market leader
- High active load, 90% *Berberis aristata*, 63% active berberine
- Small 188 mg dose size
- Water dispersible
- Full efficacy benefits of natural berberine
- Improved functionality & format options
- Natural alternative with reduced side effects
- Reduced side effects
- Australian developed & made
- Optimised with patented LipiSperse® technology

BIOBERB® SUPPORTS

- Increased production of GLP1 for healthy blood sugar regulation & metabolism
- Healthy cholesterol levels & cardiovascular function
- Metabolism function & weight management
- Women's health during peri & post-menopausal transition
- Hormonal balance in women

MULTI AWARD WINNING



2019 EU

LipiSperse®

Innovation of the Year

2019 Asia

LipiSperse®

Research Project of the Year

2019 Asia

Start Up Company of the Year



2023 Exporter of the Year

2023 Manufacturing & Advanced Materials

2022 International Health



2019 LipiSperse®
Most Innovative Idea



2023 Australia

Wholesale Distributor of the Year

2022 Australia

Wholesale Distributor of the Year

2021 Australia

Quality Raw Material Supplier of the Year

2018 Australia

Quality Raw Material Supplier of the Year

Applying BioBerb® trademarks on your product pack tells your customers you are offering a product of quality, proven efficacy, clinical validation, and innovation.

Contact Pharmako for further information about BioBerb® or to discuss how BioBerb® can benefit you.



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