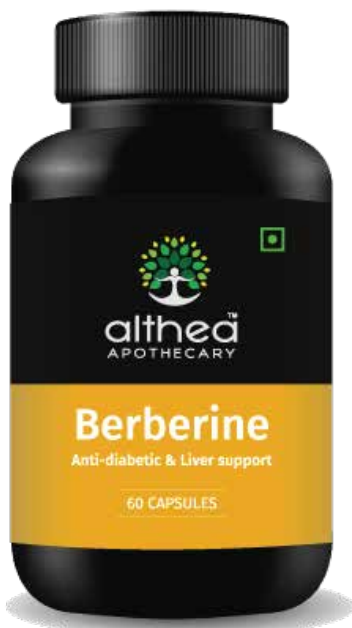


Berberine

Anti-diabetic, liver support, useful for metabolic syndrome

A nutraceutical comprising of berberine is rich in potent antioxidants having anti-inflammatory effects. It is known to have benefits in reducing fatty liver, diabetes, and other metabolic syndromes.



KEY INGREDIENTS

Berberis aristata

Reduces blood sugar, lowers cholesterol, creates stronger heart beats, boosts intestinal health by balancing out microbiome. It also helps in weight managements and helps immediate appetite.

An aggravated level of cytokines may cause various inflammatory disorders. Levels of cytokines, such as IFN- γ are excessively increased upon bacterial/viral infection. Inhibition of stimulation induced cytokine levels reflects the anti-inflammatory potential. Inhibition of amylase can delay glucose absorption, resulting in reduced postprandial plasma glucose levels. Inhibitory effect on lipid synthesis in liver cells indicates the fat-lowering effects.

Direction of use

Take 1 capsule twice a day.
Each capsule to be taken along with water.

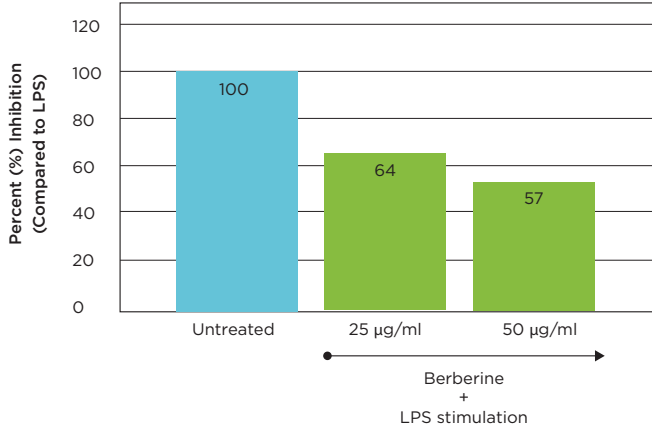
EFFICACY CLAIMS

Anti-inflammatory effect

Controls blood sugar

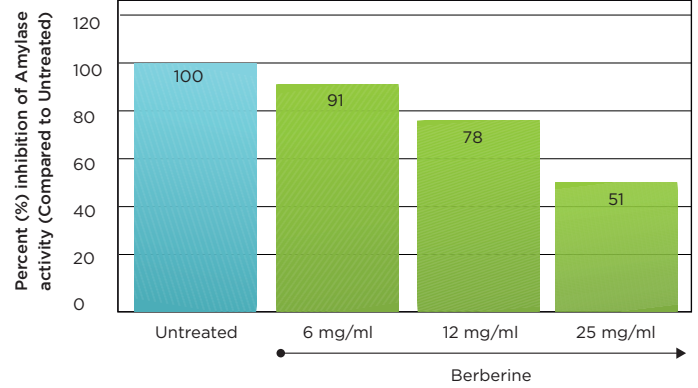
Fat-lowering effect

Measurement of Anti-inflammatory effect by IFN- γ inhibition



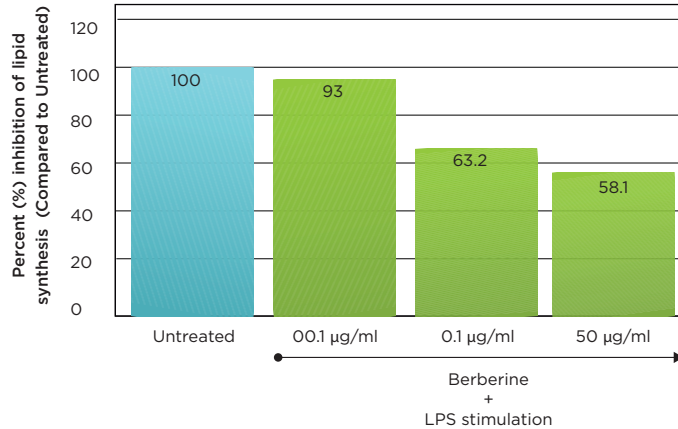
Results obtained in vitro. Data demonstrates % inhibition compared to LPS stimulated group normalised to 100%.

Measurement of Anti-diabetic potential by inhibition of Amylase activity



Results obtained in vitro. Data demonstrates % inhibition compared to Untreated group normalised to 100%.

Measurement of fat-lowering effect by inhibition of lipid accumulation



Results obtained in vitro. Data demonstrates % inhibition of lipid synthesis as compared to Untreated group normalised to 100%.

RESULTS

- 🌿 Berberine inhibits LPS-stimulated levels of IFN- γ in immune cells (macrophages, RAW264.7) by a maximum of 43.2% as compared to LPS-stimulated group.
- 🌿 Berberine inhibits amylase activity (using purified amylase enzyme) by a maximum of 49.3% as compared to untreated group.
- 🌿 Berberine helps in inhibition of lowering of lipid levels in liver cells (HepG2) by a maximum of 41.9% as compared to untreated group.
- 🌿 Berberine also showed antioxidant activity by free radical scavenging in DPPH assay with an IC₅₀ of 42.95 µg/ml.

These results substantiate the anti-inflammatory, anti-diabetic and fat-lowering properties of Berberine.