

MorActive™

Clinically Researched Moringa Seed Extract



MorActive™ is a new, patented extract from the moringa seed, *Moringa oleifera*, standardized to >20% benzyl glucosinolate (glucomoringin). Known as a superfood, the moringa plant has been used both as a traditional Indian Ayurvedic medicine and as a source of nutrition. The seeds have been found to have high levels of glucosinolates – these sulfur-containing compounds have been found to possess anti-inflammatory, antioxidant and antibacterial properties.

MorActive™ has been shown in a clinical study to be effective in reducing the severity of lower back discomfort and fatigue at a low dose of 60 mg per day. This represents a new standard for back ingredients – a naturally derived ingredient for lower back discomfort with clinical study support. Back discomfort has plagued modern society for many years – it affects 8 out of 10 people at some point during their lives and is the third most common reason people visit the doctor's office. With the new work-from-home, post-COVID life, more people are sitting in front of a computer for longer periods of time, exacerbating the back-discomfort epidemic.

Features & Benefits

Clinically studied to reduce back discomfort and fatigue with a 60 mg daily dose

Naturally derived ingredient from the moringa seed

Standardized to 20% benzyl glucosinolate (glucomoringin)

Water soluble powder

Product Characteristics and Formulating with MorActive™

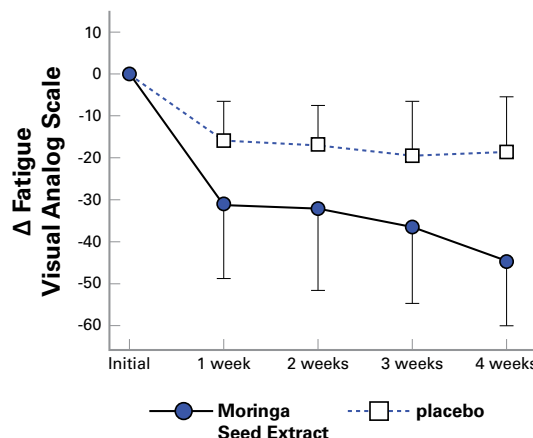
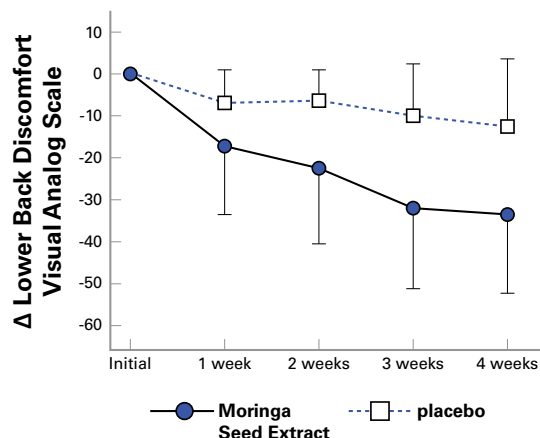
MorActive™ is a fine pale-yellow powder, soluble in water, with little taste. It can be formulated into capsules, tablets, powders, gummies, and can be included in foods and beverages. MorActive™ has a shelf-life of 24 months.

MorActive™ can be formulated with many other ingredients, including Shoden® Ashwagandha and Suntheanine® which promote better sleep and relaxation.



Science

MorActive™ moringa seed extract has been studied for fatigue and back discomfort in a randomized, double-blind, placebo controlled, clinical study. Forty males and females took either 120 mg of 10% moringa extract (equal to 60 mg MorActive™ 20% extract) or placebo, daily, for 4 weeks. The severity of physical discomfort and fatigue were evaluated by validated scoring scales. Significant changes in lower back discomfort scores were observed after two weeks. Changes in fatigue scores were significant after four weeks. There was greater effect in those participants with more severe symptoms. This study has been published.



Mechanism of Action

Glucomoringin is converted in the body to moringin, which is an isothiocyanate. Moringin has been shown to exhibit strong antioxidant and anti-inflammatory properties. Oxidative stress and inflammation caused by active oxygen generated in the body is one of the major causes of physical discomfort associated with fatigue. Furthermore, moringin is shown to be a very effective and potent agonist of TRPA1 – this ion channel is a known sensor for pain.

Applications

Dietary Supplements

Functional Foods & Beverages

Structure/Function Claims

Reduces lower back discomfort

Reduces discomfort

Reduces the severity of fatigue

May help increase energy

Source

MorActive™ is a water/ethanol extract of the moringa seed, *Moringa oleifera*, standardized to >20% benzyl glucosinolate (glucomoringin).

Safety & Regulatory

Each lot of MorActive™ is tested for physical parameters, chemical analysis for benzyl glucosinolate, micro and heavy metals. Moringa seeds are consumed in food. The safety and toxicity of the MorActive™ moringa seed extract has been studied in various toxicity studies.

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NutriScience
Ingredients Matter.

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