

Pre-Clear μ Biomic

Microbiome & Immune Support

Alimentum Labs

systemicformulas.com
1.800.445.4647

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Mimosa pudica is a unique botanical well known for its detoxification properties. The unique fiber supports a balanced microbiome, and promotes immune and GI wellness.



Gut



Detox



Whole Body

Key Benefits

Pre-Clear μ Biomic provides targeted intestinal support through *Mimosa pudica* seed, a botanical naturally rich in mucilage and fiber-like polysaccharides. Its water-absorbing and gel-forming properties contribute to intestinal bulk and support normal intestinal transit and elimination.

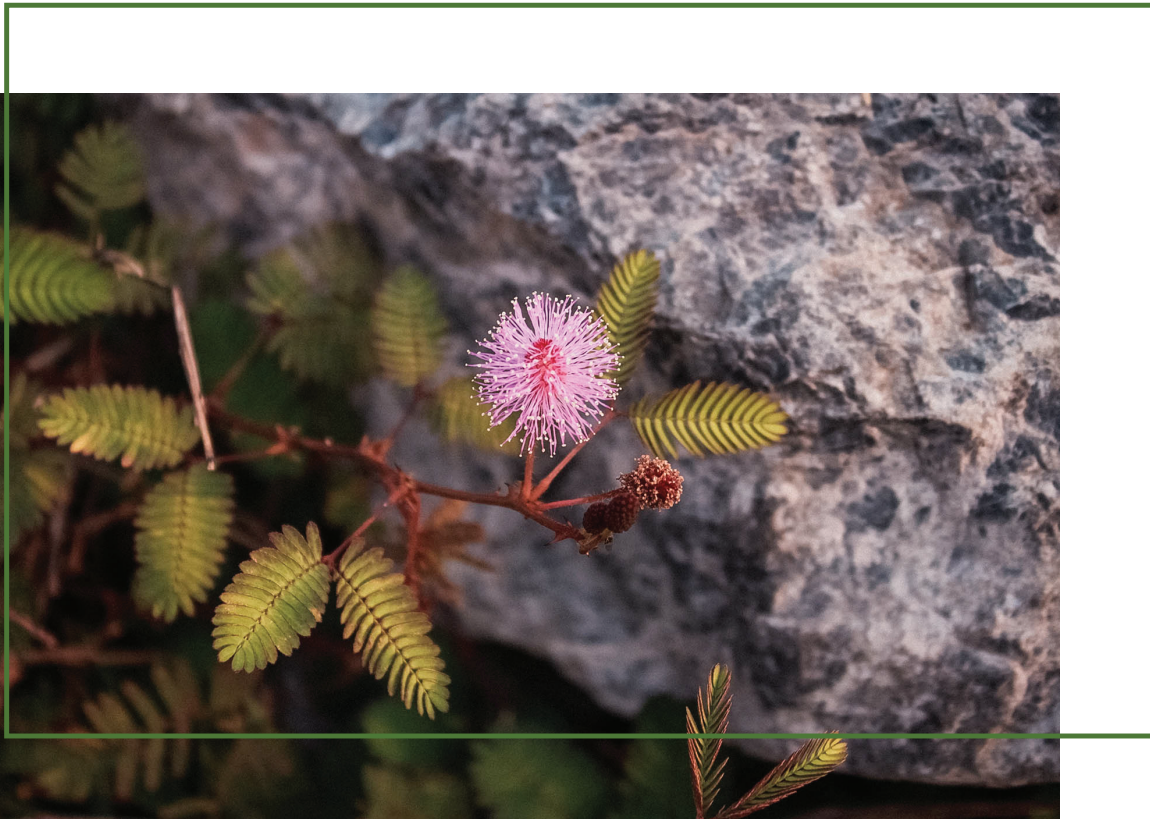
Pre-Clear μ Biomic is designed for use when additional mucilage and fiber support is desired, including during practitioner-directed intestinal, microbial, parasitic, and general cleansing protocols.

It may also be considered for individuals experiencing irregular bowel patterns, sluggish elimination, or constipation in which additional bulk-forming support is appropriate.

Product Description

Pre-Clear μ Biomic contains 1,300 mg of *Mimosa pudica* seed per two-capsule serving. The formula was developed around the unique properties of this mucilage-rich botanical, providing a concentrated source of naturally occurring polysaccharides along with flavonoids, tannins, phenolic compounds, triterpenes, and other phytochemicals. Together, these constituents give *Mimosa pudica* a multifaceted functional profile relevant to digestive and intestinal support.

Mimosa pudica seed has a particularly notable ability to interact with water. When hydrated, its mucilaginous polysaccharides expand and form a gel-like matrix that provides fiber-like bulk within the gastrointestinal tract. This physical characteristic, combined with the seed's broader phytochemical composition, makes *Mimosa pudica* an interesting botanical for supporting intestinal function and incorporating into practitioner-directed cleansing protocols.



Health Indications

Pre-Clear μ Biomic may be considered when additional intestinal bulk, mucilage, fiber, and elimination support is desired. Applications include support for irregular bowel patterns, sluggish elimination, constipation requiring additional bulk-forming support, gastrointestinal discomfort or mucosal irritation, and preparation for practitioner-directed intestinal, microbial, parasitic, and general cleansing protocols. Pre-Clear μ Biomic may be particularly useful when a practitioner wants to support intestinal preparation before a cleansing protocol or provide additional mucilage and fiber support during cleansing.

The Science of *Mimosa pudica* Seed Mucilage

Mucilage is a naturally occurring plant polysaccharide that has the ability to absorb water, swell, and form viscous or gel-like structures. In *Mimosa pudica*, the seed mucilage has been characterized as a glucuronoxylan-containing polysaccharide, with carbohydrate components including D-xylose and glucuronic acid. Its molecular structure contributes to its notable water-binding and swelling properties.

Research has demonstrated the ability of *Mimosa pudica* seed mucilage to hydrate and expand. Ahuja and colleagues characterized the seed mucilage and reported a high swelling index and strong gelling properties, leading to its investigation as a pharmaceutical binder and disintegrant. More recent research has further explored its physicochemical characteristics, including its water responsiveness, swelling behavior, and ability to form stable hydrated matrices.

A 2024 review of *Mimosa pudica* seed mucilage further highlighted its carbohydrate-rich composition, water absorption, swelling capacity, and gel-forming behavior. These characteristics have generated interest in the mucilage for pharmaceutical, food, and other functional applications.

The significance of these properties extends beyond formulation science. A hydrated, expandable mucilage can provide physical bulk within the gastrointestinal tract while

retaining water within its matrix. This provides the basis for its use as a botanical source of fiber-like bulk and support for normal intestinal movement.

Intestinal Bulk, Hydration & Transit

The gastrointestinal tract depends on adequate hydration, intestinal motility, and appropriate stool bulk to maintain regular elimination. When bowel patterns become irregular or elimination becomes sluggish, additional bulk-forming support may be useful as part of an individualized approach.

The mucilage in *Mimosa pudica* provides this support through a physical, non-stimulant mechanism. As the polysaccharides absorb water, they expand and form a hydrated gel that contributes to intestinal bulk. This can help support normal bowel movement and transit without relying on stimulant laxative mechanisms.

The hydration-dependent nature of the ingredient is an important component of its function. Adequate water allows the mucilage to fully hydrate and expand, which is why Pre-Clear μBiomic is taken with a full eight ounces of water. This combination of water absorption, expansion, and gel formation is central to the botanical's functional role within digestive and intestinal support.

Bioactive Phytochemicals

Although mucilage is the primary functional component relevant to Pre-Clear μBiomic, *Mimosa pudica* seeds contain a diverse profile of naturally occurring phytochemicals, including flavonoids, tannins, phenolic compounds, and triterpenes. These compounds contribute to the botanical's broader functional and bioactive properties.

Phytochemical investigations of *Mimosa pudica* have identified compounds associated with antioxidant, antimicrobial, anti-inflammatory, and anthelmintic activity in experimental research. The combination of these constituents with the seed's mucilaginous polysaccharides gives the botanical a broader functional profile than a conventional fiber ingredient alone.

Inflammatory Signaling and LPS

Inflammatory signaling associated with bacterial endotoxin has also been investigated in *Mimosa pudica*. Lipopolysaccharide (LPS), an endotoxin associated with the outer membrane of Gram-negative bacteria, is widely used experimentally to stimulate inflammatory signaling and the production of mediators such as tumor necrosis factor-alpha (TNF- α), interleukin-1 beta (IL-1 β), and nitric oxide (NO).

Patel and Bhutani evaluated constituents isolated from *Mimosa pudica* in LPS-stimulated experimental models and reported inhibition of several LPS-induced pro-inflammatory mediators. These findings provide preclinical evidence that constituents of *Mimosa pudica* may influence inflammatory signaling associated with endotoxin exposure.

This research adds another dimension to the botanical's relevance within intestinal cleansing protocols. During microbial or intestinal disruption, endotoxin-associated inflammatory signaling may contribute to gastrointestinal and systemic inflammatory responses. While the available research does not establish that *Mimosa pudica* seed directly binds or removes LPS in humans, the documented effects on LPS-induced inflammatory pathways provide a scientific basis for continued investigation of the botanical in this context.

Anthelmintic & Antimicrobial Properties

Mimosa pudica has a long history of traditional use in digestive and intestinal applications, including preparations associated with unwanted intestinal organisms. Modern research has provided additional insight into these traditional applications.

Experimental studies have demonstrated anthelmintic activity from *Mimosa pudica* preparations against parasitic organisms in laboratory and animal models. Studies using *Mimosa pudica* leaf extracts have demonstrated activity in laboratory worm models as well as in experimentally infected animals. Other research has investigated antimicrobial activity associated with the plant's phytochemical constituents. Together, these findings

provide scientific support for continued investigation of *Mimosa pudica* within intestinal cleansing applications.

The anthelmintic activity identified in experimental research adds another dimension to the botanical's role in intestinal support. Rather than relying on a single mechanism, *Mimosa pudica* brings together the physical properties of its seed mucilage with a diverse phytochemical profile that has demonstrated biological activity in preclinical research.

How It Works

Pre-Clear μBiomic works primarily through the water-absorbing and gel-forming properties of *Mimosa pudica* seed mucilage. When hydrated, the mucilaginous polysaccharides expand within the gastrointestinal tract, providing fiber-like bulk and supporting normal intestinal transit and elimination.

The seed also contains naturally occurring phytochemicals that have been investigated for antimicrobial, anthelmintic, antioxidant, and anti-inflammatory activity in experimental research. Together, these physical and biological properties provide complementary support for the gastrointestinal environment during practitioner-directed cleansing protocols.

Application Within Cleansing Protocols

Regular elimination is an important consideration during intestinal cleansing. Pre-Clear μBiomic can be incorporated into practitioner-directed parasite, microbial, intestinal, and general cleansing protocols when additional mucilage, fiber, and elimination support is desired.

The formula may be introduced approximately one month before an intestinal clearing protocol to support preparation and may be continued during cleansing when additional mucilage and fiber support is appropriate. Its application can be individualized

according to the practitioner's protocol and the patient's bowel patterns, digestive function, and tolerance.

By supporting intestinal bulk and transit alongside the broader goals of a cleansing protocol, *Mimosa pudica* provides a complementary botanical approach to supporting the gastrointestinal environment throughout the process.

Key Ingredient: *Mimosa pudica* Seed

Each two-capsule serving of Pre-Clear μBiomic provides 1,300 mg of *Mimosa pudica* seed. The seed contains mucilaginous polysaccharides along with flavonoids, tannins, phenolic compounds, triterpenes, and other naturally occurring phytochemicals.

The mucilage is particularly important because of its ability to absorb water, expand, and form a gel. These properties have been well characterized in the scientific literature and provide the foundation for the seed's bulk-forming and intestinal-support applications.

How To Use

The maintenance dose of Pre-Clear μBiomic is two capsules twice daily with eight ounces of water, taken away from food. The therapeutic dose is two capsules three to four times daily with eight ounces of water, also taken away from food.

Dosing should be individualized according to tolerance, sensitivity, and clinical needs. There is no established human therapeutic maximum for oral *Mimosa pudica* seed.

For cleansing protocols, Pre-Clear μBiomic may be introduced approximately one month before intestinal clearing and continued during cleansing when additional mucilage and fiber support is desired.

Safety & Contraindications

Mimosa pudica seed is a natural source of dietary fiber and mucilage and is generally well tolerated when used as directed. Because the plant contains bioactive compounds including mimosine, use during pregnancy and breastfeeding is not recommended unless specifically directed by a qualified healthcare professional.

Adequate hydration is essential when using mucilaginous botanicals. Each dose should be taken with a full eight ounces of water. Insufficient fluid intake may increase the risk of esophageal or intestinal blockage.

Because mucilage may influence gastrointestinal transit and the absorption environment, Pre-Clear μBiomic should be separated from medications and other supplements by approximately two hours.

Individuals who experience persistent gastrointestinal discomfort or other adverse symptoms should reduce the dose or discontinue use.

Additional Information

Pre-Clear μBiomic is manufactured in a cGMP facility and is Non-GMO and Gluten Free. Each two-capsule serving provides 1,300 mg of *Mimosa pudica* seed. The capsule is made with cellulose.

Conclusion

Pre-Clear μBiomic provides a focused source of *Mimosa pudica* seed, combining the distinctive physical properties of its mucilage with the broader biological characteristics of its naturally occurring phytochemicals. The seed's mucilage absorbs water, expands, and forms a gel-like matrix that contributes intestinal bulk and supports normal transit and elimination.

The scientific literature surrounding *Mimosa pudica* encompasses mucilage chemistry and physicochemical properties as well as experimental research investigating antimicrobial, anthelmintic, and anti-inflammatory activity. Research examining LPS-induced inflammatory signaling provides additional scientific interest in the botanical's broader biological activity.

Together, this body of research supports the continued investigation of *Mimosa pudica* as a versatile botanical for digestive, intestinal, and practitioner-directed cleansing applications. Pre-Clear μBiomic brings these characteristics together in a concentrated 1,300 mg seed formula designed to support intestinal preparation, regularity, transit, and elimination.

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