MEGA SporeBiotic™

The FIRST clinically tested and scientifically validated all-spore probiotic formula that optimizes gut function by supporting microbial diversity and maintaining healthy commensal gut bacteria.**

MegaSporeBiotic™ is one of the most recognized names in the probiotic industry. It is Microbiome Labs' flagship probiotic product—a pioneering and trend-setting all-spore formula designed to promote gut microbiome balance and optimization. This unique, broad-spectrum blend of spore-based *Bacillus* probiotic species is clinically studied and scientifically shown to support and maintain gut microbial diversity, healthy commensal gut bacterial species levels, and optimal intestinal barrier function.

Clinical Applications

Backed by multiple clinical research studies and extensive scientific validation, MegaSporeBiotic™ was specifically developed to help:**

- Provide comprehensive microbiome assistance
- Promote and sustain microbial diversity, a pivotal factor in maintaining a robust microbiome
- Support the growth of keystone species responsible for generating crucial short-chain fatty acids, such as butyrate, which play a vital role in human health
- Optimize digestion and absoption (*B. coagulans*)
- Provide support for digestive transit time, gut motility and function, and gut barrier integrity
- Support healthy immune function
- Unique spore-based *Bacillus* probiotic blend designed to maintain efficacy, potency, and survivability throughout the digestive process



13
Clinical Trials
(And Counting)

42%
Endotoxin Reduction vs. Placebo
After 30 days
DOI: 10.4291/wjgp.v8.i3.117

IMPROVES
Microbial Diversity
Including increasing Akkermansia muciniphila and Bifidobacterium spp
DOI:10.1016/j.ijpx.2019.100021

MEGA SporeBiotic™
MSB-003

Learn More About Microbiome Labs

1-833-561-9018 | www.integrityhealthnaturals.com | hello@integrityhealthaturals.com

Mechanism of Action

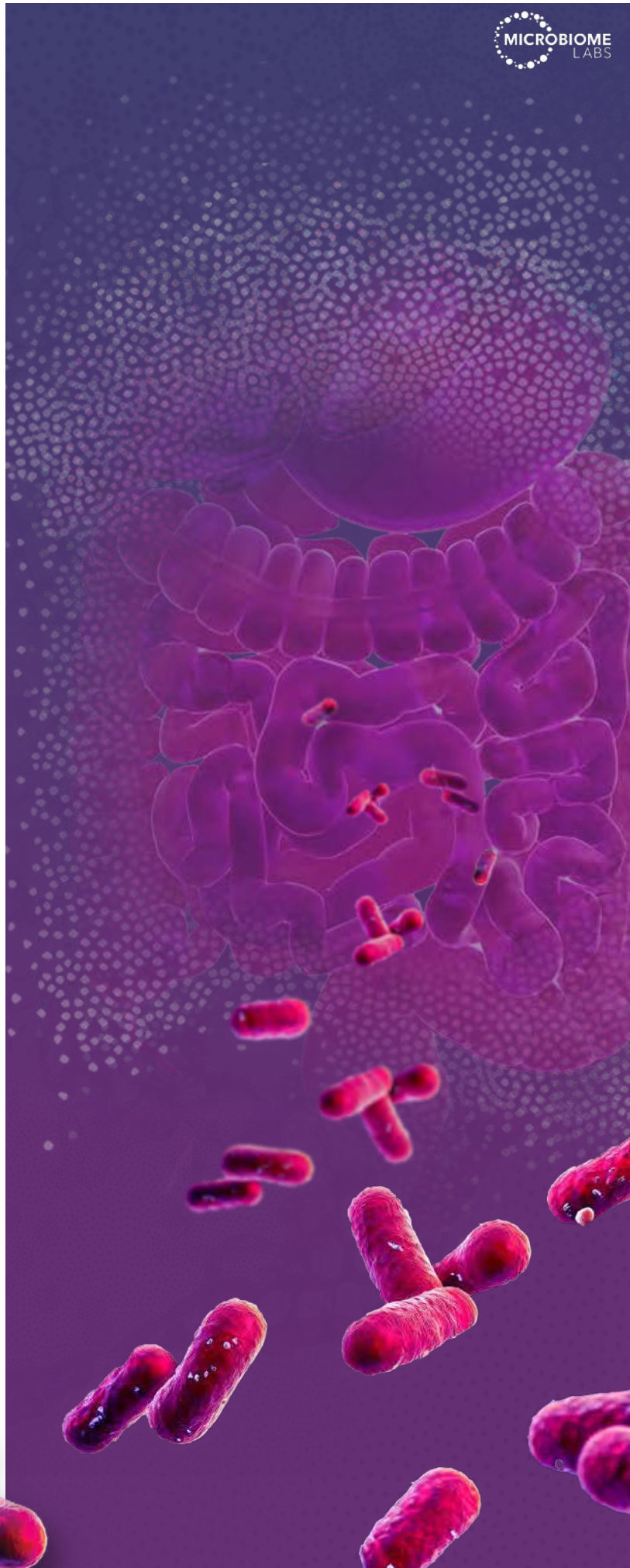
The unique characteristics of MegaSporeBiotic™ include:

100% Spore-Based

Bacillus spores are hardy probiotic bacteria that survive digestion due to their bi-phasic life cycle. *Bacillus* spores can transition from dormant to active state depending on the environment. In its dormant spore form, *Bacillus* will surround itself with an endospore. This rugged, natural outer shell protects it from light, heat, pressure, acid, lack of oxygen, and other environmental factors. Once *Bacillus* spores traverse the harsh digestive environment and reach the intestines where conditions are favorable, they germinate into their live, active form and produce metabolites such as antimicrobial compounds, vitamins, enzymes, and short-chain fatty acids. *Bacillus* spores further enhance the microbial ecosystem by increasing microbial diversity and crowding out unwanted pathogens.

Quorum Sensing

Bacillus probiotic spores become metabolically active when they reach the intestines and begin quorum sensing (gene expression regulation in response to fluctuations in cell population density). Quorum-sensing bacteria produce and release chemical signal molecules called “autoinducers” that increase concentration in response to cell density. *Bacillus* spores have evolved with humans, so they instinctively know which bacteria should and shouldn’t be present in the gut. Through quorum sensing, they identify overpopulated harmful bacteria, position themselves next to them, and compete with them, effectively crowding them out. After colonizing the large bowel for 21-28 days, *Bacillus* strains are passed through the stool.



MEGA SporeBiotic™

Clinically Tested

DNA Verified

Survives Digestion

MICROBIOME LABS

SUPPLEMENT FACTS

Serving Size 2 Capsules
Servings Per Container 30

Amount Per Serving		% Daily Value
Proprietary Probiotic Blend	295 mg 4 Billion CFU	†
Bacillus indicus, HU36™		†
Bacillus licheniformis (SL-307)		†
Bacillus clausii (SC-109)		†
Bacillus subtilis, HU58™		†
Bacillus coagulans (SC-208)		†

† Daily values not established.

SUGGESTED USE: Ages 5+

Week 1: 1 capsule every other day
Week 2: 1 capsule per day
Week 3: 2 capsules per day

For best results, take with food or after a meal
Start slowly to avoid gastrointestinal discomfort

Stable at room temperature

OTHER INGREDIENTS: Cellulose, vegetable capsule (cellulose and water).

SOY FREE

DAIRY FREE

GMO FREE

Bacillus indicus HU36™

- Promotes immune function stimulation
- Supports the production of highly bioaccessible and bioavailable carotenoids with antioxidant properties, including astaxanthin, zeaxanthin, and α-carotene.
- *B. indicus* carotenoids are easily absorbed by the GI tract and maintain a protective role against UV irradiation and the formation of reactive oxygen species
- Supports quinol and vitamin production

Bacillus licheniformis (SL-307)

- Promotes the natural production of bacitracin, a substance with antimicrobial properties
- Supports the production of protease and other digestive enzymes vital for digesting and assimilating proteins
- Promotes whole-spectrum B vitamin and folic acid production

Bacillus clausii (SC-109)

- Promotes immune function stimulation
- Antibiotic resistant—maintains replenished microflora during antimicrobial use
- Supports inhibiting harmful organism growth via multiple mechanisms
- Promotes gastrointestinal discomfort duration reduction and maintains stool composition

Bacillus subtilis HU58™

- Secretes antimicrobial compounds that suppress harmful microorganism organism growth
- Produces health-promoting SCFAs (short-chain fatty acids) such as butyrate in the gut
- Supports the production of B vitamins, vitamin K2, digestive enzymes, and the fibrinolytic enzyme nattokinase
- Provides immunomodulation via stimulation of the GALT (Gut Associated Lymphoid Tissue)
- Supports healthy liver function
- Provides competitive exclusion of gastrointestinal harmful microorganisms (e.g., competition for adhesion sites)
- Maintains gut barrier integrity

Bacillus coagulans (SC-208)

- Extensively studied and shown to provide support for multiple gastrointestinal inflammatory concerns
- Produces highly bioavailable L-lactic acid. The L+ optical isomer has a more significant supportive effect on immune function stimulation and gut defense
- Promotes immune function stimulation
- Produces health-supportive bacteriocins to oppose nonbeneficial microorganism growth
- Promotes significant β-galactosidase (lactase) activity in vitro, enhancing the digestibility of lactose in lactose-sensitive individuals

MEGA SporeBiotic™

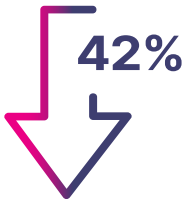
IN TWO FINISHED PRODUCT CLINICAL STUDIES

STUDY 1

PATIENTS ACHIEVED REDUCTION IN SERUM ENDOTOXIN

Taking **MEGASPOREBIOTIC™**

5-HOUR POSTPRANDIAL



Taking **PLACEBO**



STUDY 2

REDUCTION IN SERUM TRIGLYCERIDES

Taking **MEGASPOREBIOTIC™**

12-WEEK SUPPLEMENTATION



Science You Can Trust from Microbiome Labs

MegaSporeBiotic™ has been scientifically validated in numerous studies, highlighting its significance for the microbiome. The gut microbiome is integral to overall human health and physiology. A compromised gut can stem from various factors when essential elements are depleted. Key factors must be addressed to achieve microbiome strength and resilience, including microbial species diversification, short-chain fatty acid production, and mucosal barrier fortification. Disruptions or imbalances in microbial communities can precipitate functional changes, significantly influencing overall health and well-being.

Numerous studies have scientifically validated MegaSporeBiotic™ and it's significance for the microbiome. This all-spore probiotic formula has been clinically studied for its efficacy in promoting microbial diversity and significantly boosting levels of key beneficial species, notably *Bifidobacterium* and *Lactobacillus*—crucial factors in establishing a robust and resilient microbiome.

A 2021 SHIME model study, MegaSporeBiotic™ supported enhanced microbial diversity and promoted the growth of keystone species, such as *Akkermansia muciniphilia*. Additionally, a 2020 animal model study highlighted the role of MegaSporeBiotic™ in promoting improved immune parameters. There was evidence of reduced inflammatory cytokines and biomarkers and improved expression of tight junction proteins, indicating enhanced barrier integrity in mice exposed to *C. difficile*.

A notable 2015 landmark study revealed MegaSporeBiotic™ supports a reduction in postprandial lipopolysaccharide (LPS) concentration. This bacterial endotoxin can trigger occasional innate immune responses that may increase cytokines and lead to low-grade inflammation. MegaSporeBiotic™ demonstrated a remarkable 42% reduction in postprandial LPS in 30 days.

According to a 2019 clinical study, MegaSporeBiotic™ promotes optimal microbiome balance and an overall reduction in gastrointestinal discomfort. Furthermore, the microbiome's modulation influence extends beyond the gastrointestinal tract, exerting well-recognized effects throughout the human body. A 2020 study demonstrated a significant 38% decrease in serum triglyceride levels among individuals with elevated triglycerides, highlighting its influence on metabolic health. Subsequent research has consistently supported the beneficial effects of MegaSporeBiotic™, showing improvements in skin, liver, cardiac, and immune functions across multiple clinical trials.

As Your Practice Partner, Microbiome Labs is committed to producing and developing the scientific research, data, and raw materials necessary to elevate human health and the standing of Natural Medicine. We're pioneering health to ensure the microbiome takes center stage in tomorrow's integrated healthcare.

****These statements have not been evaluated by the Food and Drug Administration (FDA). This product is not intended to diagnose, treat, cure, or prevent any disease.**

APRIL 2024