



ButyratePro™

THE FUTURE OF NUTRITIONAL SUPPLEMENTS



For Gut Health Optimization and Overall Well-Being

ButyratePro™ is a cutting-edge ingredient that will revolutionize the nutritional supplement market.

ButyratePro is BioTess proprietary butyrate complex that optimizes gut health and overall well-being. ButyratePro is an unbound, high purity, next-generation butyrate, vital for maintaining a healthy gut environment, improving digestive health, and promoting both a healthy inflammatory response and healthy intestinal microbiome.

Engineered with precision, ButyratePro is the ideal choice for manufacturers and co-manufacturers seeking to enhance their product offerings with an ingredient that is disruptive, scientifically backed, and highly effective.

The Global Gut Health Products Market is Rapidly Growing

The global gut health products market
is projected to grow to
\$120.38 B
USD by 2032*.

Key Growth Drivers**

- Growing prevalence of digestive disorders.
- Rising overall health concerns among the population.
- Increasing geriatric population.
- Increasing demand for natural and safe products.


*Source: <https://www.marketresearchfuture.com/reports/gut-health-products-market-11934>


**Source: [Digestive Health Market Size & Share | Growth Report \[2027\] \(fortunebusinessinsights.com\)](#)

DIGESTIVE HEALTH SUPPLEMENT MARKET FORECAST

Growth Rate Through 2027
 **10.1%**

Market Forecast for 2027
 **\$22.69 B**

Market Driver
 Rise in the Prevalence of Digestive Diseases

Largest Region
 North America

Source: [Digestive Health Global Market | Growth Report \[2027\] \(fortunebusinessinsights.com\)](#)

ButyratePro: A Revolutionary Ingredient for Supporting an Essential Bodily Function

Butyric Acid Benefits

The digestive system performs multiple essential bodily functions, and consumers today know that maintaining gut health through diet and nutritional supplements is vital. Butyric acid, or butyrate, is a postbiotic and an important short-chain fatty acid (SCFA) produced by beneficial gut bacteria through fiber metabolism.¹⁻²

Some individuals who experience functional gastrointestinal issues produce insufficient SCFAs in the gut due to intestinal dysbiosis, stress, medications, and other factors.³⁻⁴ Less than optimal production of SCFAs can lead to metabolic imbalances, creating adverse gastrointestinal and systemic conditions.⁵⁻⁷ In the United States, it is estimated that 11% of the population has a chronic digestive disease, with a prevalence rate as high as 35% for those 65 years of age or older. Research has shown a variety of conditions associated with decreased SCFA production can improve with SCFA supplementation.⁸⁻¹⁰

Traditionally, butyric acid supplementation has been challenging for consumers due to the difficulty in conveniently delivering bioaccessible SCFA molecules to the intestinal tract—until ButyratePro.



KEY BENEFITS OF BUTYRATEPRO

Enhanced Gut Health: ButyratePro is a proprietary, unbound, high purity butyrate complex that optimizes gut integrity and function.

Improved Solubility: Locked in an innovative molecular food matrix with its own accompanying release agent, optimal nutrient solubility and improved absorption in the microbiome are ensured.

Flavorless and Odorless: Unlike traditional butyrate supplements, ButyratePro is flavorless and odorless, greatly facilitating compliance with the consumer's daily supplement regimen.

Consumer Appeal: Addresses the growing consumer demand for gut health and wellness products.

BioTess Technology Advantage

Traditional Approach

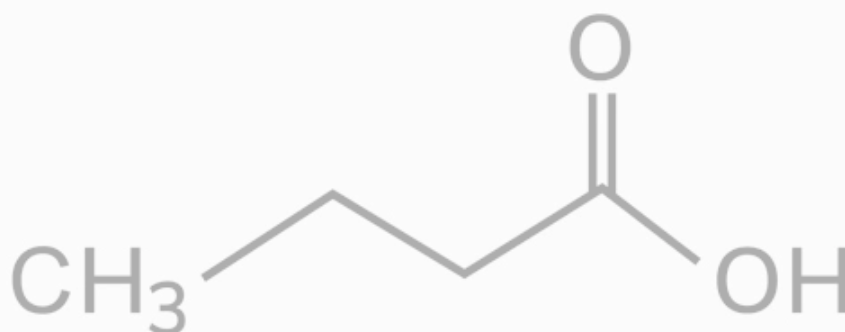
Due to its volatile nature and its organoleptic challenges, butyric acid is traditionally bound to a mineral, such as calcium, magnesium, or sodium, for consumption as a supplement. This process effectively creates a mineral salt that needs to be disassociated in the gut to free the butyric acid.

- In the gut, this large butyric acid/mineral complex needs to break up so the butyrate can be absorbed through the gut wall. Only after it has completed this step will the complex separate and make the butyric acid available to the body.
- The mineral salt format, however, reduces only a fraction of butyric acid's highly offensive odor and taste but is inefficient, even repugnant to many patients, and therefore requires the consumer or patient to ingest a large number of capsules in order to receive any efficacious dose of the nutrient.

BioTess' Modern Technology

In contrast, BioTess applies its advanced CyLoc® cyclodextrin inclusion technology to encapsulate each individual butyric acid molecule. This next-generation technology eliminates the need to inefficiently bind the butyrate in a mineral salt manner.

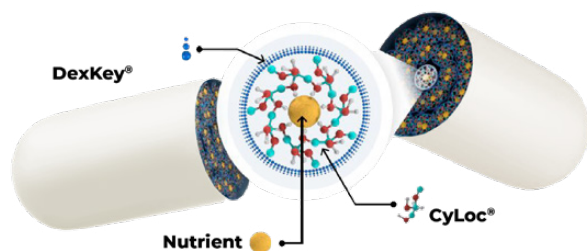
- The smaller, CyLoc-encapsulated pure butyric acid from BioTess, once at its destination in the gut, easily permeates the gut wall one molecule at a time and can be used effectively by the body immediately, allowing micro dosing with dramatically improved efficacy and result.
- CyLoc technology drastically reduces the number of capsules a consumer needs to ingest for an effective dose in comparison to mineral salt-bound butyrate.
- CyLoc technology is so effective at encapsulating butyric acid that BioTess Butyric Acid is palatable even for children as it has only a faint odor and no taste.



The Future of Single-Molecule Supplementation

A NANOMOLECULAR DELIVERY SYSTEM

BioTess leverages Tesseract Medical Research's revolutionary delivery technology, thus ensuring the effective oral supplementation of butyric acid. This advanced delivery system enables nutrients to pass safely through the stomach, preserving their integrity and enabling precise release and absorption in the gut.



See the Technology in Action
Scan to watch the video on how it works.

Patented CyLoc–DexKey® Technology: Produced with dynamic atomization, resulting in stable, consistent powder quality and precise control over powder properties, including minimal residual moisture in the cyclodextrin matrix. The active ingredient is locked in a specialized molecular food matrix, with an accompanying release agent, that ensures its solubility. Millions of molecules are released into the gut microbiome, one molecule at a time, precisely where needed.

CyLoc technology allows nutrients to pass safely through the stomach, where stomach acid would otherwise degrade the nutrient's integrity.

DexKey technology accompanies each protected nutrient molecule and breaks the dextrin fiber cage at the desired release point in the intestinal tract, ensuring targeted delivery.

Product Applications



Nutritional Supplements:
Ideal for capsules, tablets, and powders aimed at overall wellness.



Functional Foods:
Perfect for inclusion in health bars, gummies, beverages, and other functional foods.



Practitioner Formulations:
Suited for advanced formulations recommended by healthcare professionals to their patients.



Direct Sales Products:
Enhances product lines in the direct sales market with a unique and compelling health and wellness benefit.



Why Choose BioTess ButyratePro?

Quality: Manufactured in a state-of-the-art facility in Arizona, adhering to the highest quality standards.

Scalability: Available in various quantities to meet your specific production needs.

Competitive Advantage: Stand out in the nutritional supplement market with a tasteless, flavorless, unique bio-accessible butyrate ingredient that meets consumer demand for gut health solutions.

3-Year Shelf Life: Due to enhanced cyclodextrin inclusion.



REFERENCES

1. Roy CC, Kien CL, Bouthillier L, Levy E. *Nutr Clin Pract* 2006;21:351-366.
2. Nicholson JK, Holmes E, Kinross J, et al. *Science* 2012;336:1262-1267.
3. Machiels K, Joossens M, Sabino J, et al. *Gut* 2014;63:1275-1283.
4. Hwang JS, Im CR, Im SH. *Immune Netw* 2012;12:129-138.
5. Kau AL, Ahern PP, Grin NW, et al. *Nature*. 2011;474: 327-336.
6. Hodgkinson K, et al *Clin Nutr*. PMID: 36502573.
7. Zhu LB, et al. *World J Clin Pediatr*. PMID: 34616650; PMCID: PMC8465514.
8. Di Sabatino A, Morera R, Ciccocioppo R, et al. *Aliment Pharmacol Ther* 2005;22:789-94.
9. Alvaro A, Solà R, Rosales R, et al. *IUBMB Life* 2008;60:757-764.
10. Kim HJ, Leeds P, Chuang DM. *J Neurochem* 2009;110:1226-1240.

OVERVIEW

Ingredients

- Improves digestive health.
- Reduces inflammation in the gut.
- Promotes a healthy intestinal microbiome.
- No mineral-binding, pure butyric acid.
- No sodium added.
- Flavorless.
- Odorless.

Technology

- Patented CyLoc-DexKey technology
- Produced with dynamic atomization, which achieves stable, consistent powder quality and precise control over powder properties, including minimal residual moisture in cyclodextrin matrix.
- The active ingredient is locked in a specialized molecular food matrix, with an accompanying release agent, to ensure optimal solubility. One molecule at a time is released in the gut microbiome, precisely where it is needed.
- **Enhanced delivery + boosted solubility + advanced bioaccessibility.**

Contact Us

Ready to innovate your product line with BioTess ButyratePro?

Contact BioTess today to learn how we can support your formulation needs and help you stay ahead of the competition.

Order now at [BioTess.com](https://www.BioTess.com) | sales@BioTess.com



BioTess™

INGREDIENTS WITH INTEGRITY