



DISCOVER THE UNSUSPECTED POWER OF POLYPHENOLS FOR GUT HEALTH



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GUT HEALTH AND BEYOND

Millions of people worldwide are seeking support for gut health considering the documented links between gut, microbiota and overall health. From the gut to the whole body. This is one of the greatest scientific discoveries for human health in recent decades. According to FMCG Gurus (Top 10 trends for 2024), the current focus on maintaining digestive health to promote overall well-being is gaining momentum as more knowledge emerges about the far-reaching impacts of the gut microbiome. Moreover, a survey has revealed that 1 out of 2 global consumers deem maintenance of gut health appealing.

Biombalance™, our signature polyphenolic grape seed extract produced by a proprietary process, offers an innovative approach to gut health beyond conventional categories such as probiotics and fibers, with prebiotic, antioxidant and other effects targeting the gut microbiome.

THE ORIGIN OF BIOMBALANCE™

The beautiful French region of Champagne is known for its lush vineyards and ancestral wine traditions. For generations these vineyards have been the only source of one of the most sought-after wines in the world: Champagne. These are the same farms where the plant raw material for Biombalance™ originate. Groupe Berkem controls the uninterrupted supply chain, starting in the vineyards where the grapes are sustainably harvested.



COMPOSITION & ACTIVE COMPOUNDS

Name: <i>Vitis vinifera</i>	Used part: Seeds	Geographical origin: France – Champagne
Preparation type: Dry extract	Aspect: Powder	Appearance: Beige to brown
Identification: Total low molecular weight flavanols (monomers + dimers) ≥ 45%		
Dispersibility: Water dispersible / Insoluble in oil phases		Recommended use: 500 mg/d

SCIENCE

A range of actions for gut health demonstrated by research from proprietary *in vitro* and *ex vivo* studies.

In vitro

- Biobalance™ **enhanced mRNA expression of tight junction proteins**, Occludin and Claudin-4 in human intestinal cells in culture, in support of healthy gut barrier function.
- Biobalance™ **reduced the release of pro-inflammatory mediator**, IL-6 in support of a healthy inflammatory response.
- Biobalance™ **helped fight oxidative stress** by increasing Nrf2 and Hmx-1 expression in support of antioxidant pathways.



Ex vivo

- Biobalance™ **positively impacted gut microbiota activity**, increasing SCFA* production.
- Biobalance™ **promoted the growth of beneficial bacteria** in cultured human colonic flora, **stimulating butyrate-producing species** such as *Faecalibacterium prausnitzii* as well as bacteria known to bioactivate bioflavonoids.

*Short Chain Fatty Acids

What differentiates Biobalance™ from other grape extracts?

- **Biobalance™** is manufactured using a **specific proprietary process**, combining a step of extraction and a step of **purification**, leading to a **unique well-balanced composition**.
- **Biobalance™** highlights the importance of **polyphenols for gut health** with **proprietary findings** (*in vitro*, *ex vivo*).
- **5 main modes of action** were investigated which revealed some innovative key role on microbiota.



- All steps are controlled from **sustainable sourcing** in the Vineyards in the Champagne region of France, to extraction and drying in our facilities.

GUARANTEES



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