

# Humiome® Postbiotics

## A pioneer in the biotics space

Preparation of inanimate microorganisms and/or their components that confers a health benefit on the host.<sup>1</sup>

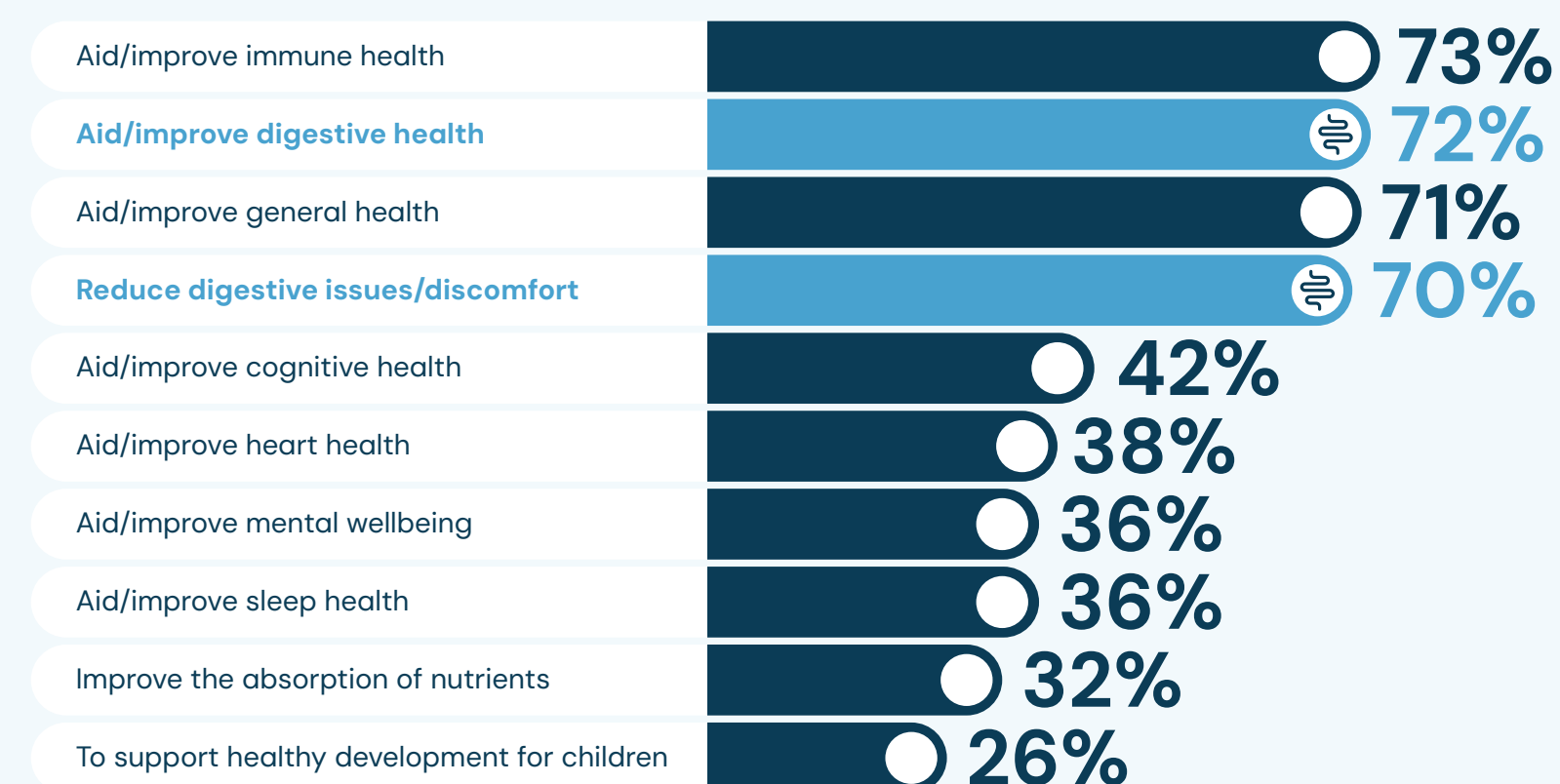
A product of dsm-firmenich's commitment to scientific advancements in the category, backed by a rich legacy of ingredient excellence, safety and credibility.

### Postbiotics in a nutshell<sup>1</sup>

- Postbiotics are deliberately inactivated microbial cells with or without metabolites or cell components that contribute to demonstrated health benefits.
- A postbiotic does not have to be derived from a probiotic for the inactivated version to be accepted as a postbiotic.
- The beneficial effects of a postbiotic on health must be confirmed in the target host – for example humans, companion animals and livestock.
- The site of action for postbiotics is not limited to the gut, however postbiotics must only be administered at a host surface, such as the oral cavity, gut, skin, urogenital tract or nasopharynx.
- Postbiotics must be tested for safety based on the intended use.

### What benefits do you associate with postbiotics?

Top 10 answers – Consumers who have heard of postbiotics<sup>2</sup>



### Key Facts Humiome® Post LB

- Combination of *L. fermentum* (CNCM I-2998) and *L. delbrueckii* (CNCM I-4831), also called *Lactobacillus* LB, culture medium fermentation including peptides, amino acids, carbohydrates, carbon and minerals
- 60 billion inactivated bacteria per gram of powder
- 340 mg recommended daily dose

### Key Advantages Humiome® Post LB

#### Good safety profile

- No risk of translocation
- No antibiotic resistance
- Compliant to self-GRAS and QPS statutes

#### Stable

- Suitable for harsh manufacturing & drying process
- Simplified storage without refrigeration

#### Recognized

- *Lactobacillus* LB is marketed and used by patients in almost 40 countries around the world
- Quoted in the ISAPP publication<sup>1</sup>

#### Easy-to-use

- Dry powder form: can be used in any food, beverage or food supplement

#### Science-backed

- Strong evidence in digestive health



### Global HfG market (2022–2027)

€9.7 billion retail value  
4.7% CAGR<sup>3</sup>

Postbiotics Revenue<sup>4</sup>  
US\$ 104.7 million  
9.3% Expected market growth CAGR by 2026<sup>4</sup>

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### A proprietary fermentation process

Our ECHO process enriches, concentrates and heat-stabilizes organisms

- Bacterial ferment
- Fermentation
- Collection of fermentation products
- Heat treatment
- Drying

### Proven efficacy

Clinical studies have shown that postbiotics can offer benefits across several therapeutic areas that include:

- Digestive health<sup>5</sup>
- Metabolic heart health<sup>6</sup>
- Immune health<sup>6</sup>
- Brain health<sup>7</sup>

Want to know more about how Humiome® Postbiotics can help you deliver Health from the Gut?



#### References

1. The International Scientific Association of Probiotics and Prebiotics (ISAPP) consensus statement on the definition and scope of postbiotic; Salminen et. Al.
2. FMCG Gurus: Prebiotics, Probiotics & Postbiotics – Global Report; September 2022.
3. Based in part on calculations from Euromonitor Consumer Health, 2023ed.
4. Frost & Sullivan, Top 10 Growth Opportunities in the Nutrition & Wellness Industry; December 2022.
5. Scott, E.; De Paepe, K.; Van de Wiele, T. Postbiotics and Their Health Modulatory Biomolecules. *Biomolecules* 2022, 12, 1640. <https://doi.org/10.3390/biom12111640>
6. Park, M.; Joung, M.; Park, J.-H.; Ha, S.K.; Park, H.-Y. Role of Postbiotics in Diet-Induced Metabolic Disorders. *Nutrients* 2022, 14, 3701. <https://doi.org/10.3390/nu14183701>
7. Pandey, M.; Bhati, A.; Priya, K. et al. Precision Postbiotics and Mental Health: the Management of Post-COVID-19 Complications. *Probiotics & Antimicro. Prot.* 14, 426–448 (2022). <https://doi.org/10.1007/s12602-021-09875-4>

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