



Postbiotics Bibiotic®

From live microorganisms
To their bioactive components

*From a scientific concept to
clinically applicable solutions*



Evolution of microbiome approaches



Type	Essence	Goal	Limitations
Probiotic	Live probiotic microorganisms	Synthesis of bioactive metabolites in the intestinal tract	Limited survivability
Prebiotic	Nutritional substrate for probiotic microorganisms	Supports the synthesis of bioactive metabolites in the intestinal tract	Potential support of undesirable bacteria in dysbiosis
Synbiotic	Probiotic + Prebiotic	Combines the actions of pro-and prebiotics for more effective synthesis of metabolites	Combines the limitations of pro- and prebiotics
Postbiotic	Bioactive microbial components	Direct delivery of bioactive components to the intestinal tract	—



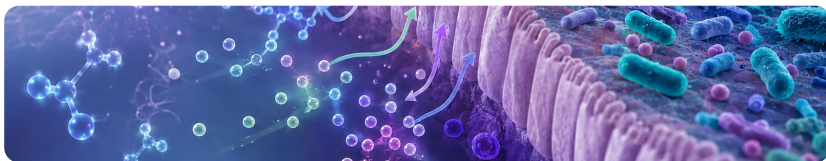
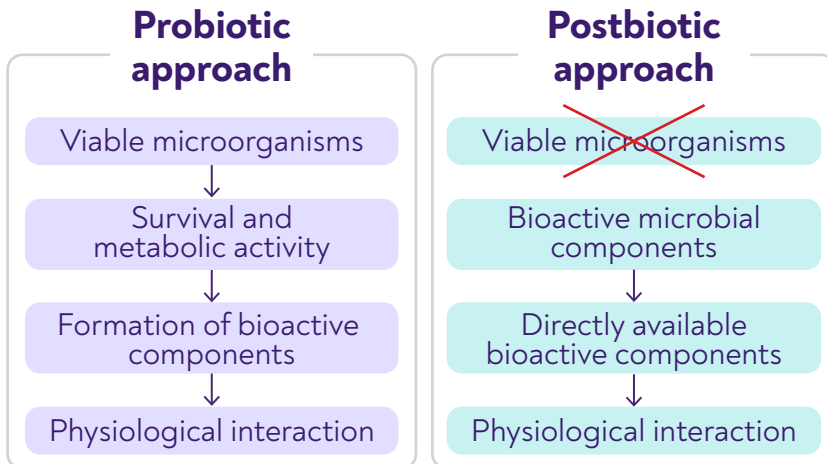
Transition from indirect to direct biological action.



Postbiotics – a new microbiome concept

Biological rationale of postbiotics

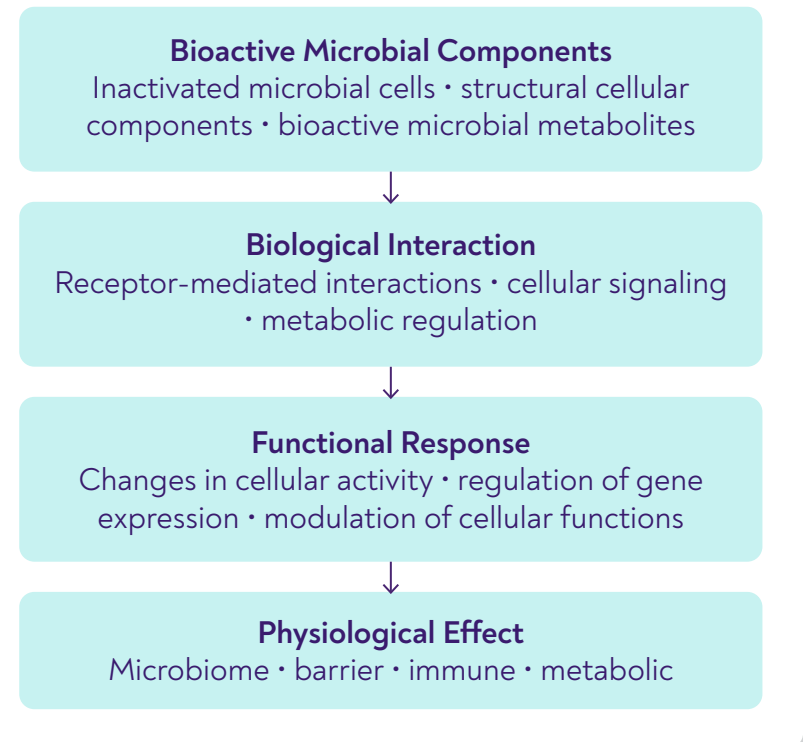
The physiological effects of microorganisms are mediated by their bioactive components.



Transition from dependence on microbial survival to directly available bioactive components.

Postbiotic - mechanism of action

Development of the physiological effect



Bioactive microbial components interact directly with the physiological systems of the body.

Bibiotic® – integrated postbiotic platform

Bibiotic® – science-driven postbiotic platform

Bibiotic® – a scientific and technological platform for the development of standardized and clinically relevant postbiotic products.

Key principles:

- strict process control
- full traceability
- standardized compositions
- analytical verification
- regulatory compliance

The platform is focused on the development of safe, effective, and reproducible postbiotic solutions.



The basis for predictable and reproducible microbiota therapy.

Bibiotic® – composition and form

Form:

Liquid postbiotic formula obtained through controlled microbial fermentation using selected bacterial strains in defined quantitative and qualitative ratios.

Composition:

- ✓ inactivated bacterial cells
- ✓ bacterial cellular components
- ✓ bioactive bacterial metabolites

Does not contain:

- viable microorganisms
- GMOs
- declarable allergens
- preservatives



All ingredients have an established safety profile.

Postbiotics – a new therapeutic model

Bibiotic® – functional profile

The bioactive bacterial components contained in **Bibiotic®** interact directly with the physiological systems of the body.

Mechanism	Functional Profile
Microbiome	Modulation of the resident gut microbiota
Barrier	Improvement of epithelial barrier function
Immune	Modulation of local and systemic immune responses
Metabolic	Modulation of systemic metabolic responses



Comprehensive postbiotic action on interconnected microbiome, barrier, immune, and metabolic mechanisms.

Scientific principles in the development of Bibiotic®

Bibiotic® postbiotic products are developed within a clearly defined scientific and technological framework aimed at achieving predictable and reproducible functional outcomes.

Key principles:

- ✓ selection of biologically relevant postbiotic components
- ✓ standardized and strictly controlled manufacturing process
- ✓ clinically oriented product concept
- ✓ analytical confirmation of composition
- ✓ established safety profile



An approach focused on minimizing biological variability and ensuring consistent functional outcomes.

Bibiotic® – portfolio of postbiotic solutions

For key physiological systems and clinical needs
One postbiotic platform – distinct functional profiles



Gastro

Immuno

Derma

Baby

Sensitive

Sport

Hepa

Dental

Travel



A structure supporting the long-term development of the category and ensuring sustainable market potential.

Postbiotic products developed in accordance with the latest scientific principles of microbiome therapy.

Bibiotic® Gastro

*Postbiotic solution
for supporting intestinal
balance and barrier
function.*



Key functional effects:

- ✓ supports the composition and metabolic activity of the gut microbiota
- ✓ supports the mucosal barrier and intestinal integrity
- ✓ contributes to the maintenance of gastrointestinal homeostasis
- ✓ compensates for the deficiency of bacterial metabolites during antibiotic therapy
- ✓ supports the restoration of the resident microbiota

Key characteristics of the bioactive matrix

- lactate–acetate profile
- barrier-regulatory peptide fractions
- immunomodulatory bacterial components



***A formula designed to modulate
gastrointestinal homeostasis.***

Bibiotic® Hepa

*Postbiotic strategy
for supporting
hepatic physiology*



Key functional effects:

- ✓ supports physiological processes of hepatic metabolism
- ✓ contributes to the physiological metabolism of lipids and carbohydrates
- ✓ supports cellular protection against oxidative stress
- ✓ contributes to cellular protection against oxidative stress
- ✓ aids metabolic adaptation under changing physiological conditions

Key characteristics of the bioactive matrix

- propionate–lactate profile
- redox-active metabolites
- regulatory peptide fractions



***A solution aimed at modulating
hepatic metabolism.***

Bibiotic® Immuno

Postbiotic concept for supporting immune homeostasis and adaptive response



Key functional effects:

- ✓ supports the normal functioning of the immune system
- ✓ supports the adaptive immune response under increased immune load
- ✓ contributes to a balanced immune response
- ✓ supports mucosal defense mechanisms
- ✓ contributes to physiological resilience to viral and other external factors

Key characteristics of the bioactive matrix

- lactate–lactate profile
- exopolysaccharides (EPS)
- bioactive peptide fractions
- immunomodulatory bacterial components



An approach focused on the regulatory mechanisms of the immune response.

Bibiotic® Derma

Postbiotic approach focused on the internal mechanisms of skin homeostasis



Key functional effects:

- ✓ contributes to the modulation of systemic mechanisms related to skin homeostasis
- ✓ supports the maintenance of the skin barrier function
- ✓ contributes to the physiological balance of the skin environment
- ✓ supports mechanisms associated with the gut–skin axis
- ✓ supports antioxidant protection

Key characteristics of the bioactive matrix

- lactate–acetate metabolite profile
- exopolysaccharides (EPS)
- redox-modulating metabolites
- dermobioactive peptide fractions



A focus on the regulation of skin homeostasis from within.

Bibiotic® Sensitive

Postbiotic concept for supporting immune homeostasis and adaptive response



Key functional effects:

- ✓ supports the normal functioning of the immune system
- ✓ supports the adaptive immune response under increased immune load
- ✓ contributes to a balanced immune response
- ✓ supports mucosal defense mechanisms
- ✓ contributes to physiological resilience to viral and other external factors

Key characteristics of the bioactive matrix

- acetate–lactate profile
- exopolysaccharides (EPS)
- bioactive peptide fractions
- immunomodulatory bacterial components



An approach focused on the regulatory mechanisms of the immune response.

Bibiotic® Baby

Postbiotic concept for supporting immune homeostasis and adaptive response



Key functional effects:

- ✓ supports the balanced development of the gut microbiota
- ✓ supports the maturation of intestinal barrier function
- ✓ contributes to the physiological adaptation of the gastrointestinal tract
- ✓ contributes to immune maturation in early life
- ✓ supports microbiome stability during the early stages of life

Key characteristics of the bioactive matrix

- bioactive organic acids
- microbiome-regulating metabolites
- barrier-regulatory peptide fractions
- immunoregulatory bacterial components



A product tailored to the needs of early immune and intestinal development.

Bibiotic® Travel

Postbiotic model for intestinal and immune adaptation during environmental changes



Key functional effects:

- ✓ supports microbiome stability under changing environmental conditions
- ✓ supports adaptive mechanisms of the digestive system
- ✓ contributes to maintaining gut balance under non-routine conditions
- ✓ supports gastrointestinal barrier function
- ✓ contributes to a physiological immune response during changes in climate, diet, and water

Key characteristics of the bioactive matrix

- bioactive organic acids
- microbiome-regulating metabolites
- barrier-regulatory peptide fractions
- immunoregulatory bacterial components



A mechanism supporting the body's adaptation to environmental changes.

Bibiotic® Dental

Postbiotic configuration aimed at supporting oral biofilm and the barrier function of the mucosa



Key functional effects:

- ✓ supports the balance of the oral biofilm and microbiota ecosystem
- ✓ contributes to maintaining tissue integrity
- ✓ supports the physiological balance of the oral environment
- ✓ contributes to the local mucosal immune response
- ✓ supports the barrier function of oral tissues

Key characteristics of the bioactive matrix

- redox-active metabolites
- exopolysaccharides (EPS)
- mucosa-supporting peptides
- biofilm-modulating metabolites
- antimicrobially active metabolites



A modulator of oral biofilm and mucosal barrier function.

Bibiotic® Sport

Postbiotic formula aimed at supporting physiological endurance and recovery capacity during physical exertion.



Key functional effects:

- ✓ supports energy metabolism during intensive physical activity
- ✓ contributes to maintaining redox balance during physical exertion
- ✓ supports physiological recovery after physical load
- ✓ supports adaptive mechanisms of muscle tissue
- ✓ supports microbiome stability under training stress

Key characteristics of the bioactive matrix

- redox metabolites
- functional amino acids
- regulatory peptide fractions
- low-molecular-weight organic acids



Metabolite support for adaptation and recovery during physical exertion.

Bibiotic® – a new standard in microbiome therapy

Science-driven postbiotic platform

Scientifically substantiated postbiotic products, designed for **predictability, control, and functional efficacy.**

Standardization, control, and biological relevance – the foundation for sustainable clinical application and long-term category development.

From	To
Concept	Clinical applicability
Variability	Standardization
Probability	Predictability
Viability	Bioactive components
Colonization	Functional effect



Bibiotic® – from viability to a predictable functional effect.

One Platform. Six Health Domains.

