

Bac³Beads

- Spherically shaped **mucin-based growth boosters beads**.
- **Designed to boost the growth and metabolic activity of hard-to-grow** and productive bacteria in **dynamic culturing systems** (e.g. bioreactors, fermentation setups).
- Engineered with **oxygen and nutrient diffusion** profiles **favourable for anaerobic bacterial colonisation**.

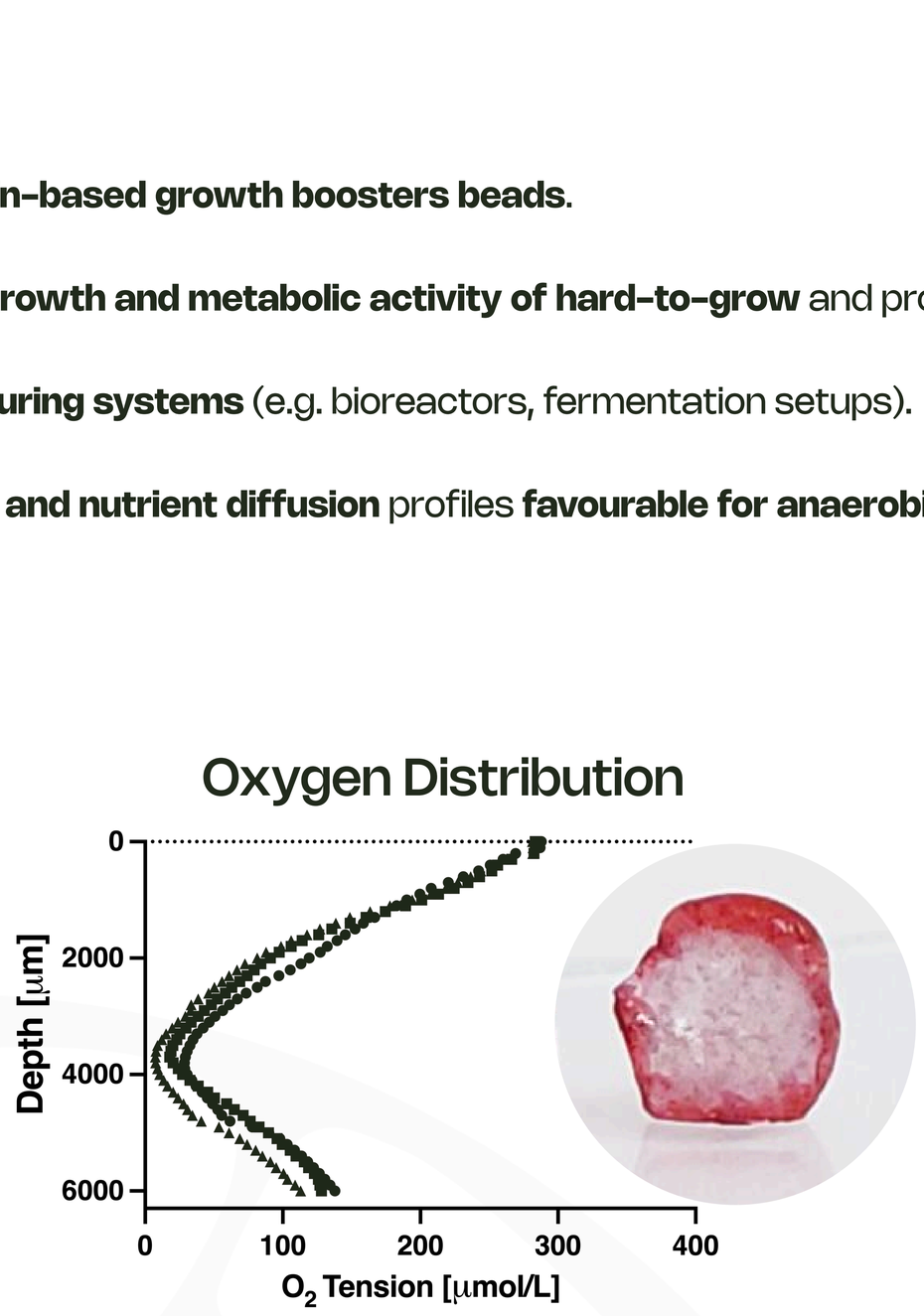
Chemical Composition

Gut³**Beads**	[Mucin]* 28.5 mg/mL [NaCl] 0.570 mg/mL
Vag³**Beads**	[Mucin]* 2.0 – 10 mg/mL [NaCl] 0.070 mg/mL
Bac³**Beads**	[NaCl] 0.070 – 9,0 mg/mL Custom-tailored solution

*Current formulations use commercially available porcine gastric mucin type III.

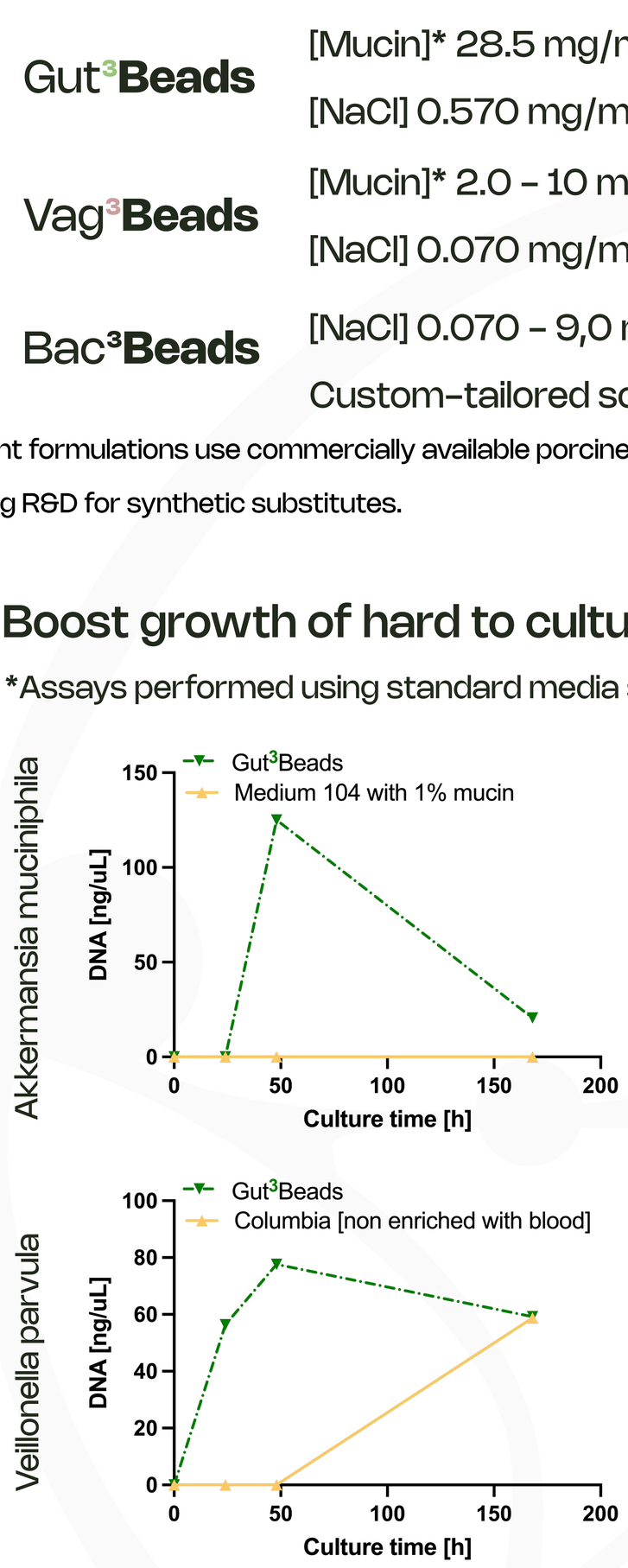
Ongoing R&D for synthetic substitutes.

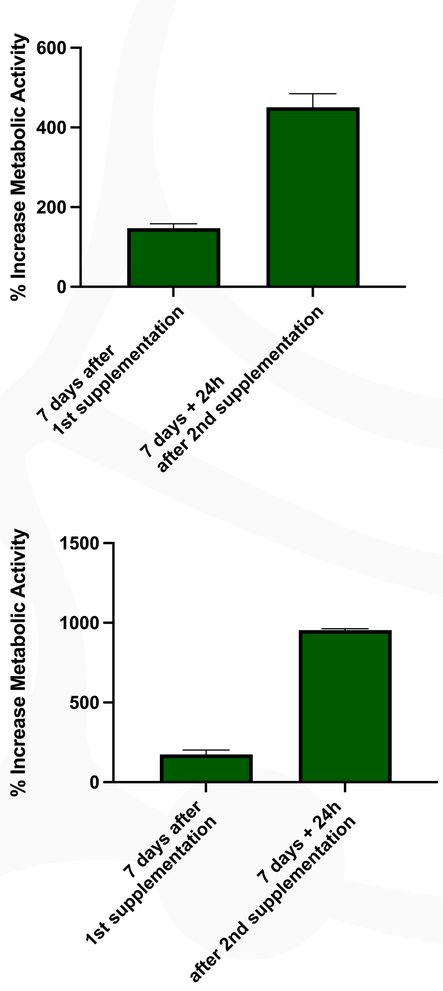
Oxygen Distribution



Boost growth of hard to culture intestinal microbiota

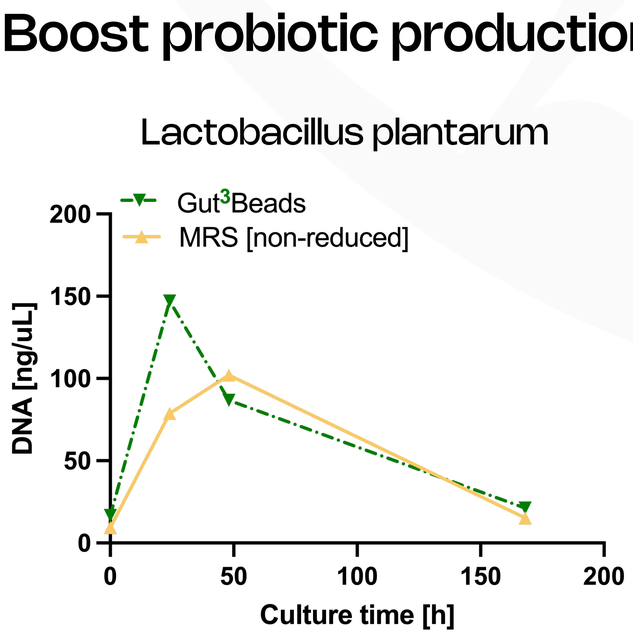
*Assays performed using standard media supplemented with Gut³**Beads**.

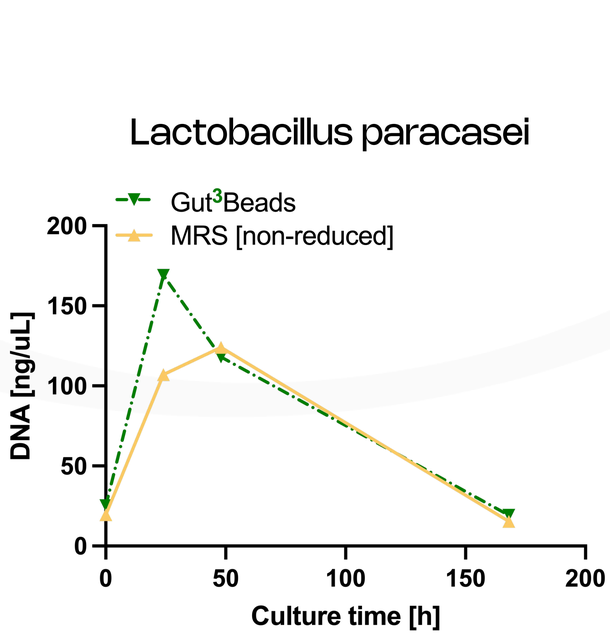




Validated **increased DNA concentration** and **metabolic activity** vs traditional methods.

Boost probiotic production

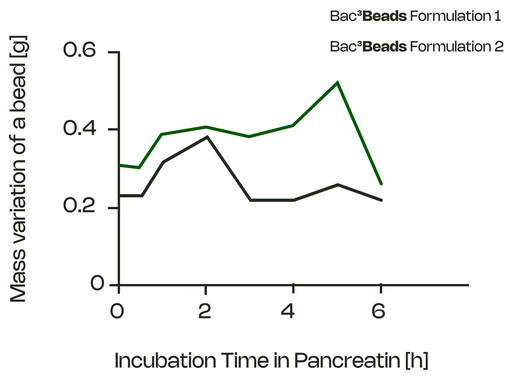




Gut³**Beads** boost Lactobacilli proliferation.

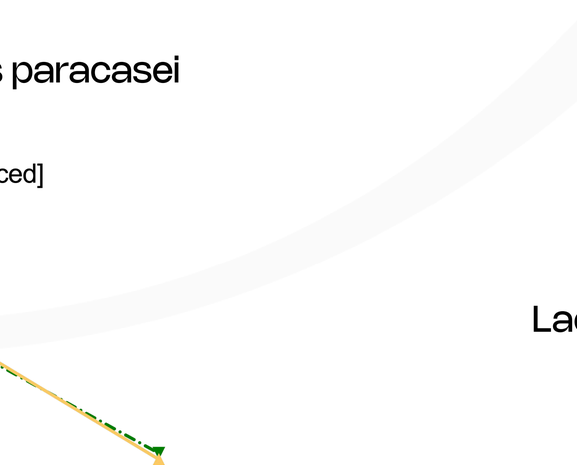
Potential prebiotic activity and pro-, prebiotic delivery

Stability in Pancreatin

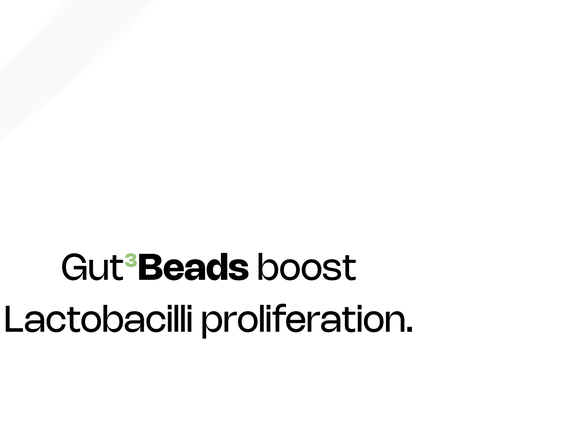


Prebiotic action

Enhances the growth of beneficial bacteria known to support mucosal barrier integrity



Promotes the proliferation of mucosa-supporting bacteria



Reduces proliferation of opportunistic pathogens

Bac³Gel
Unblocking the Full Power of Microbiota

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