

# LALLEMAND HEALTH SOLUTIONS: PROBIOTICS for HUMAN HEALTH



LALLEMAND HEALTH SOLUTIONS

<b>80+</b>	years of know-how	
<b>60+</b>	countries	
<b>40+</b>	proprietary strains	
<b>500+</b>	formulas	
<b>1 in 8</b>	employees in R&D	
<b>260+</b>	publications	

From the lab to the shelf, control of the overall manufacturing process of probiotic formulas.

## From *in vitro* and *in vivo* models to clinical studies



Strain characterization (genomic analysis, 2D-gel proteomics), resistance to gastric acidity and bile, systemic screening by health area for *in vitro* modes of action and safety



Strains mechanisms of action *in vivo* in various animal models (rodents, *C. elegans*, etc.)



Clinical studies performed with external research centers (contract research organizations and universities) to further develop and extend the clinical documentation and probiotic applications

