

Over the last five years, in a research project supported by the Luxembourg Ministry of the Economy, Probiotic Group, in collaboration with the *University of Luxembourg* (LCSB) and the Luxembourg Institute of Science and Technology (LIST), has achieved significant results in the field of "external use of probiotics":

Microbial-based cleaning products have gained increasing attention thanks to their potential to provide effective and sustainable cleaning solutions. The RDI project 'Probiotics in External Applications' investigates their challenges and potential, focusing on their development, efficacy and applications in various fields.

The project investigated the use of RPMBs in the removal of organics, dirt and stains, as well as their effects on existing microbial flora. Their efficacy and harmlessness to health have been demonstrated.

The project highlighted their numerous advantages over traditional cleaning agents, such as their biodegradability, reduced environmental impact, and ability to maintain a healthy microbial balance in the environment. It also examined the challenges and opportunities associated with the use of MBCPs, as well as consumer viewpoints. [Reference CVN 04/19/RED]



LE GOUVERNEMENT
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The **probiotics** have been tested for viability, safety and efficacy. The biotechnology that guarantees the stability of the bacteria in our final products is patented by Probiotic Group.

The products are successfully sold under the Provilan brand in German pharmacies via *Dieckhoff & Ratschow Praxisdienst GmbH & Co.KG*, as well as used in the hotel sector and fitness & wellness sector (e.g. at *Mediterranea GmbH & Co. KG* in Bergisch Gladbach, one of the largest day spas in Europe). Provilan products are also represented in the retail sector of the *Cactus* chain in Luxembourg, as well as in the field of veterinary medicine and paramedical facilities.

In addition, the products are already successfully marketed in the Scandinavian countries under private labels. The company *Orkla* under the brand OMO, as well as the group Dalema Group under the brand Simple Goods are constantly growing there.

Consumer demand is increasing, especially in the pet **care** sector. In this area, the Probiotic Group has carried out numerous studies for its *Provilan Vet (LUCAA+)* range of pet care products, whether *in vitro* (in the laboratory) or *in vivo* (veterinary experience of use, case studies). The results are excellent in both cases, such as our publication on the *influence of probiotics on wound healing* in the [International Journal of Molecular Sciences](#) in August 2023. The probiotics sustainably support the local, healthy microbiome in the various areas of application in animals. In this way, chronic ear or main problems can be efficiently prevented and the use of antibiotics can be reduced.

All indications are that consumers are looking for sustainable, natural and health-friendly solutions in a world that has been subject to the intensive use of chemicals for decades. The reduction of this chemical load in our immediate environment is our main concern, for the benefit of the health of humans, animals and the environment, true to the *One Health* principle.

[Probiotic Group](#) Since 2016, as a leader in R&D, innovation and production in the field of probiotics, has been the best partner to promote this revolution in the field of purification and animal health. As a reference laboratory, we manufacture products of our own brand Provilan, as well as products for third parties, under our own brand.

All information is available via the contact details below.