

SYNBIO TECH INC.

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Made in
TAIWAN



Breakthrough in the Limitation of Probiotic Pelleting for Poultry and Livestock

The reasons why the outcomes of probiotic products fed to animals are not consistent may be related to the property of the strain, the screening and manufacturing process of the strains, and the timing of use, etc. SYNLAC™ products are developed under SYNTEK™ thorough system with SYNBIO TECH INC. unique Culture Collection and Data Bank. The strains are selected and isolated from the health animal intestinal tract or natural environments. We success to develop the branded SYNLAC™ product in animals based on the physiological criteria, for instance, *Lactobacillus plantarum* LP28 and *Enterococcus faecium* EF08 have properties of high intestinal adhesion, pathogen inhibition, assisting in immune regulation and promoting a synergistic effect among other strains. *Lactobacillus acidophilus* LAP5 can prevent livestock from diarrhea. *Bacillus subtilis* can secrete multiple enzymes to breakdown large molecular compounds.

SYNLAC™ is suitable for use in poultry drinking system, powdered and pelleted feed. Under high temperature manufacturing processes, SYNLAC™ stains are formed a postbiotic combination, exhibiting functions from both live and killed bacteria. When animals ingest the feed into their gastrointestinal tract, live bacteria can colonize on the intestinal villi, and secrete bacteriocin, lactic acid, and other antimicrobial substances that enable to balance the microflora in the intestinal tract. Additionally, it promotes the turnover of villi growth and crypt cell and enhances the nutrition absorption. On the other hand, the bacterial cell wall fragments produced by the high-pressure heat-killed increases the contact surface area with the intestinal villi. Moreover, the released bacterial cytoplasm and nucleic acid components can be delivered to the Payer's patch via M cells to bind with immune cells, promoting the different cytokines of production for immune cell growth or conversions such as IL-10, IFN- γ , and others. These can boost the organism's immune system against disease, reduce the probability of inflammation, and reduce energy wastage.

For more information please visit: <https://www.synbiotech.com/SynlacEn/>

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