



# Sim<sup>o</sup> Pro-L

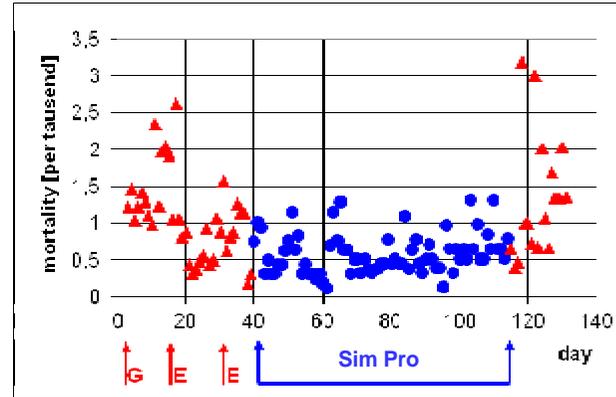
Liquid Probiotics plus enzymes  
*Bacillus subtilis* KUEN 1581 / DSM 24443

### Probiotic *Bacillus* sp.

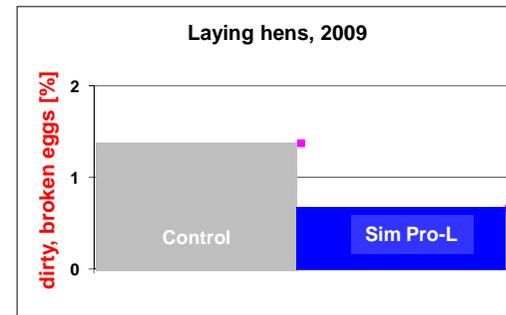
Probiotic *Bacillus subtilis* is a gram-positive, facultative aerobic and endospore forming bacteria. Their spores are resistant to heat, disinfectants and chemicals. They can endure more than 100 °C many minutes and can be pelleted without loss of vitality. *Bacillus* spores reach the intestine without being damaged produce enzymes like catalase and subtilisin which support proliferation of beneficial Lactic Acid Bacteria, while gram negative pathogens (*Salmonella* spp., *Escherichia coli*, *Clostridium perfringens* etc.) are repressed. Sim Pro-L is in liquid form (for drinking water) and is fortified with NSP-multi enzymes: Xylanase, Beta-glucanase, Cellulase, Hemicellulase, Amylase

### Sim Pro-L Dosage

Broiler & Layer: 250 g per ton feed or drinking water



Bandırma-Turkey, March-July 2007, 16334 HY LINE BROWN, 84<sup>th</sup> week age. Problem: chronic typhoid fever  
**G**: Gentamicin and **E**: Enrofloxacin treatments were unsuccessful, **Sim Pro** application (89-100<sup>th</sup> week) decreased mortality by *Salmonella* infection. Mortality increased again after **Sim Pro** feed was cut down.

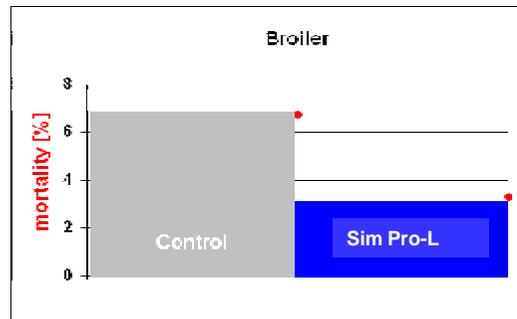
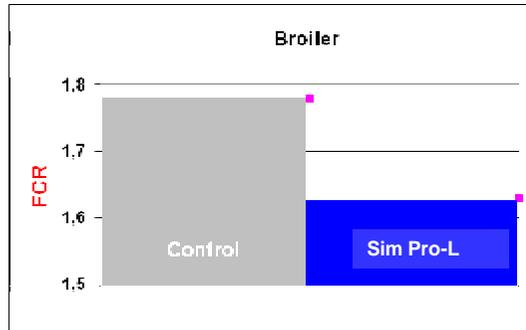


### Sim Pro-L, Benefits

- Growth promotion, low FCR and costs
- Gut flora regulation, boosting immune system, repressing pathogens like *Salmonella*, *Clostridium*, *E.coli*, *Campylobacter*, reduced risk of diarrhea, reduced mortality
- Better faces quality, decreased runny faeces and ammonia emission
- Increased egg shell thickness and specific gravity, intensive egg colour, less dirty eggs
- Easy application of probiotics and enzymes via drinking water

**ORBA Biochemistry** was founded in 1977 with the purpose of promoting enzyme use in Turkish food, textile and leather industries through development of special enzyme blends and technical application support.

Today, Orba Biokimya has its modern production facility near Istanbul, supplying enzymes to various industries with thirty years of production, procurement and application experience. ORBA enzymes are produced according to **HACCP** procedures and comply with **FAO/WHO JECFA**, **FCC** recommended specifications with **ISO**, **FAMI-Qs** certifications. In 2018 ORBA Biochemistry merged with **Simbiyotek Biological Products**, which develop microbiological products for organic and sustainable farming, animal husbandry, food and environmental sectors. Product palette for poultry comprise mycotoxin binding, immunity stimulating and *Salmonella* inhibiting prebiotics on inactivated yeast basis; probiotics with *Bacillus* sp. and *Lactobacillus* sp. as antibiotic substitute, gut regulator and growth factor; microbiological products to disinfect beddings, ban ammonia emission and odor defeat. Product development and R&D efforts are made jointly with academic institutions at various levels. Simbiyotek production strains are genuine and registered & deposited in KÜKENS (Culture Collection Center of Istanbul University) and DSMZ-Germany



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 microbiological feed additives