

**BIO****SPRING**

**INTERNATIONAL EXPERT IN PROBIOTICS AND  
LIVESTOCK NUTRITION**







## About



### VISION

Become the leading company in researching, producing and distributing probiotics and livestock nutrition products in Asia.



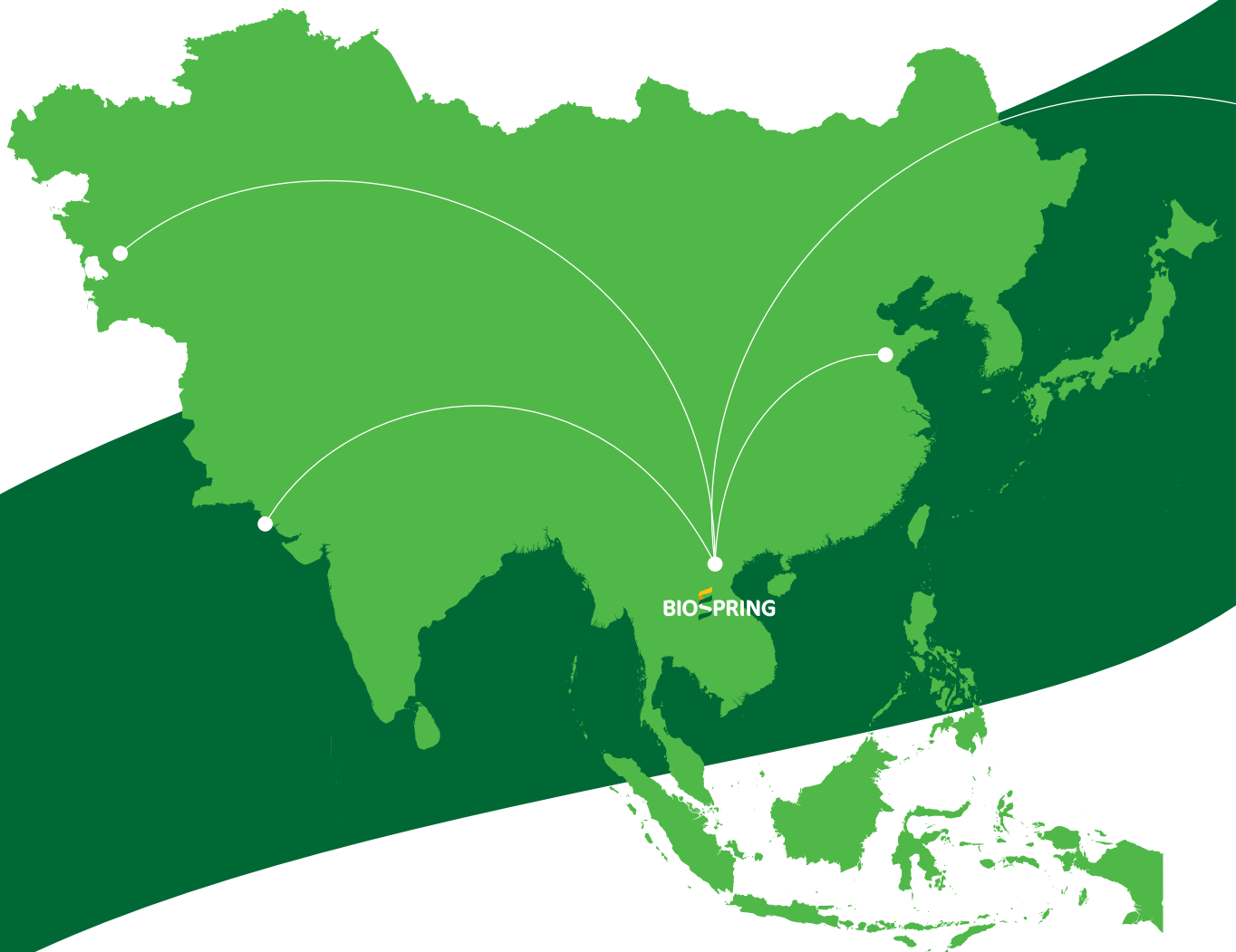
### MISSION

Improve economic benefits, reduce animal feed production cost, improve animal feed quality and enhance competitiveness for farmers and feed companies by applying high-end technologies in the world to the agriculture sector in Asia.



### CORE VALUES

Quality. Technology. Services





## The pioneer in British technology research and application. Production of exclusive Probiotic strains in Vietnam

- BioSpring's products are probiotics in heat-resistant spores of Bacillus strains
- Probiotics are made from new-generation heat-resistant spores which are selected and separated in microbiological laboratory of Royal Holloway University of London United Kingdom
- Probiotics strains of BioSpring have been researched for their safety, stability and effects in digestive system of livestock by some specialized scientific works.



- Royal Holloway University of London, United Kingdom is the leading university in biotechnology in the world.



- Biotechnology research institute of Royal Holloway University of London, United Kingdom
- SporeGen was established in 2011 by the leading expert in microbiology – Professor Simon Cutting.
- SporeGen has made a breakthrough in heat-resistant spore formation technology with high efficiency (~ 100% of spores) which leads to a new-generation probiotic products.
- In 2012, SporeGen cooperated with BioSpring and transferred its technology and IP of Bacillus research and production to BioSpring for probiotics products development and distribution in Vietnam.



- Veracus & FG Systems are two leading companies in nutrition product research and development in Germany.
- BioSpring products are optimized for each livestock species and formulated by the leading German nutrition experts.





### Protected and exclusive original strains

- Original probiotics strain are selected by the leading scientists in the world and identified by gene technology.
- Research results are published on NCBI (National Center for Biotechnology Information), U.S.

### Breakthrough spore technology

- Apply breakthrough production technology, 100% made from plant materials.
- Spore-forming fermentation technology with high efficiency, 100% of spores.
- Easy to enter into digestive system of host and resistant to low pH level of stomach.
- Resistant to high temperature up to 95°C for 30 minutes.



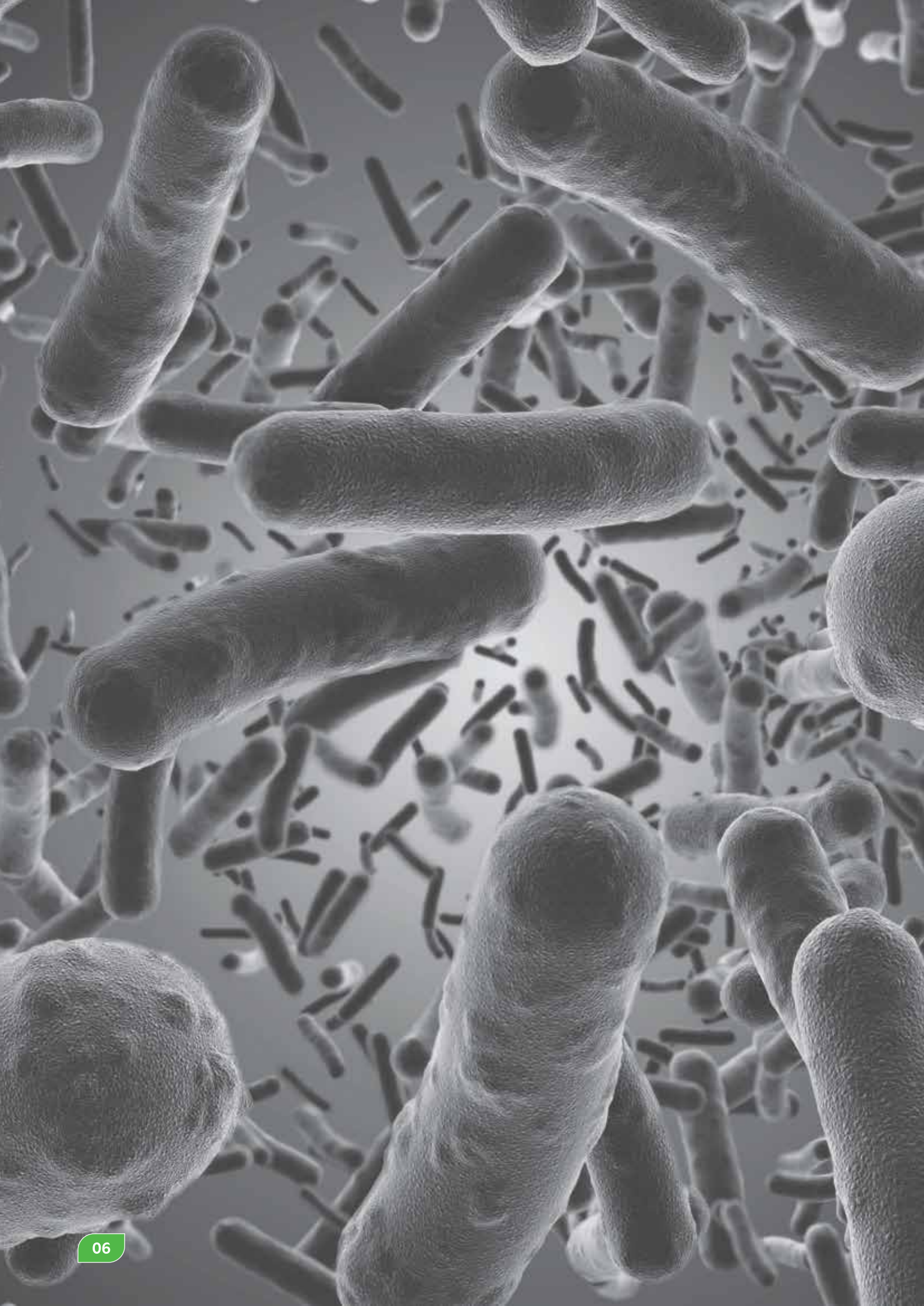
### Industrial production facility and process meeting international standards

- High-end and enclosed production line, meeting GMP standard
- Inspection team are trained by leading experts in microbiology from United Kingdom (Royal Holloway University of London, United Kingdom)

### Stable and outstanding product quality

- Fermentation, spore formation, single strain and finished product mixture for earliest delivery to customers, avoid long-term inventory or product quality deterioration during transport







**Outstanding features of probiotic products  
Researched and produced in BioSpring**



### PROTECTED AND EXCLUSIVE ORIGINAL STRAINS



Original probiotics strains are selected by the leading scientists in the world and identified by gene technology.

Research results are published on NCBI (National Center for Biotechnology Information), U.S.

### RESISTANT TO HIGH TEMPERATURE UP TO 95°C FOR 30 MINUTES



Spore fermentation technology enables probiotic products to resist pelleting temperature up to 95°C for 30 minutes

### ACTIVATE ENZYME AND IMPROVE NATURAL IMMUNITY

**Enzyme**

Bacillus strains used in probiotic products are capable of generating enzymes such as Phytase, Cellulase, Amylase, Protease to help livestock digest and absorb nutritious ingredients in animal feed more thoroughly such as protein, starch, lipid, minerals and essential vitamins.

### MEET GMP STANDARDS



All products are manufactured in high-end and enclosed production line meeting GMP standards



✓ Capacity of 3,000 tons  
of probiotics/year

✓ Area of  
12,000 m<sup>2</sup>



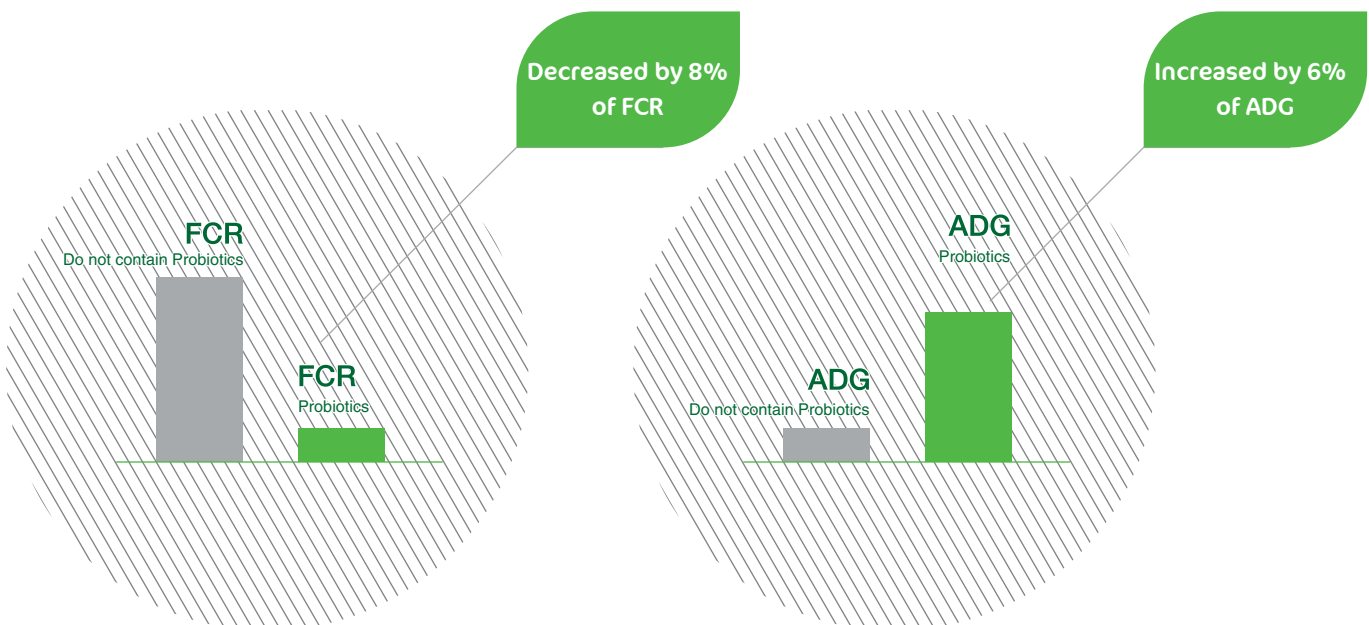


**We help livestock improve their  
natural immune system**



✓ Livestock are healthy

✓ Antibiotics are limited in animal husbandry





BioSpring understands that immune systems of livestock species are different, thus, they need special nutrients, diet and care.

We apply leading microbiological technologies in the world to manufacture probiotics and nutrition products for livestock with the highest quality and in conformity with development characteristics of livestock species, climate and pedology of Vietnam



All BioSpring products are heat-resistant spore probiotics of United Kingdom with outstanding features, containing no hormone and antibiotics, to make the highest productivity in animal husbandry.



## Our products



### Pig

Heat-resistant spore probiotics of United Kingdom are for pigs raised for pork, and sows to help them rapidly grow, prevent diarrhea and remove unpleasant smell from pigsties.

### Poultry

Heat-resistant spore probiotics of United Kingdom are for chickens raised for eggs and meat to help them get healthy, prevent enteritis, diarrhea, respiratory diseases and remove unpleasant smell. Especially, products for chicken raised for eggs help to improve egg output and improve yolk color.

### Shrimp

Heat-resistant spore probiotics of United Kingdom are for shrimps. Nutritional supplement products help shrimps to enhance resistance, prevent white faeces and improve shrimp size and appearance. Environment treatment products help to decompose algae and clean water.

### Fish

Heat-resistant spore probiotics of United Kingdom are for fish to make their intestine healthy, improve resistance, help fish grow faster and remarkably improve FCR.



## BioSpring's partners

# STRATEGIC PARTNERS

BioSpring focuses on investing in research and application of probiotics 100% made from heat-resistance spores. Especially, BioSpring has coordinated with domestic and foreign partners, Institutes, Universities and research units to make high-quality products which best suit animal husbandry characteristics in Vietnam.

## Partners



Probiotic partners in United Kingdom



Partners in Vietnam



Partners in U.S



## Sponsorship Funds, Non-governmental organizations



# BioSpring

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