



BCIL Biotech Consortium India Limited

PROBEADS – EC

Novel gastro-resistant probiotic formulation for use in poultry

TECHNOLOGY AVAILABLE FOR TRANSFER

UNMET NEED AND OPPORTUNITY

- Probiotics are increasingly being included in poultry diets as an alternative to antibiotic growth promoters.
- Probiotic supplementation can modify the chicken's intestinal microbiota and in turn can stimulate its immune system, reduce inflammatory reactions, prevent pathogen colonization, enhance growth performance of the chicken.
- However, the efficiency of orally administered probiotics can be affected by the acidic environment in proventriculus and gizzard. Hence only spore forming organisms are used as probiotics.
- Although non-spore forming bacteria offer comparable or superior probiotic benefits, they are not used in commercial preparations as they will become non-viable in the acidic environment in the gizzard.
- Probeads EC is a novel probiotic formulation for use in poultry species (Broiler birds, Layer birds, Quail etc).
- ProBeads overcome this difficulty by a patented formulation (patent pending) and can deliver non-spore forming Probiotic bacteria species to intestine by protecting it from gastric pH.

STAGE OF DEVELOPMENT

- **TRL7 technology**, (Late stage validation completed). Shelf life of the formulation is established. Safety studies have been complete in target species. Field trials have been conducted at different locations.

INTELLECTUAL PROPERTY

- Patent pending in India

LICENSING OPPORTUNITY

BCIL is looking for suitable industrial partner for commercialization of this Probeads–EC technology.

UNIQUE SELLING PROPOSITION

- Presented in brightly colored bead format for the ease of delivering it to poultry species.
- Non-spore forming Probiotic bacteria species can be used in this formulation.
- ProbeadsEC has been tested at Poultry Research Station, Centre for Animal Production Studies, TANUVAS, Madhavaram Milk Colony, Chennai.

TECHNOLOGY

The technology of Probeads EC comprises of two parts:

- Method of formulation of the probiotic microbes into viable gastric pH resistant beads.
- A prototype design of equipment for large scale manufacture of the Probeads-EC



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