

SPORICH-ResQ™

Bacillus coagulans spores & Saccharomyces boulardii for Poultry

Potent Rescuer from Stress & Diarrhoea

SPORICH-ResQ is a time tested combination of extremely effective proprietary, non-haemolytic and non-GMO Viable spores of *Bacillus coagulans* & Monogastric yeast *Saccharomyces boulardii*. Both *Bacillus coagulans* & *Saccharomyces boulardii* have been documented for over half a century in controlling acute & chronic diarrhoea.

Probiotic species in SPORICH-ResQ:

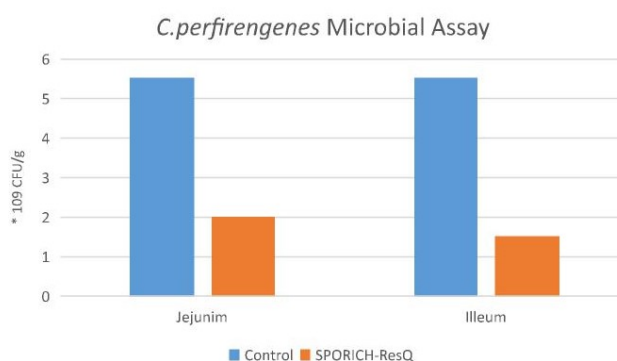
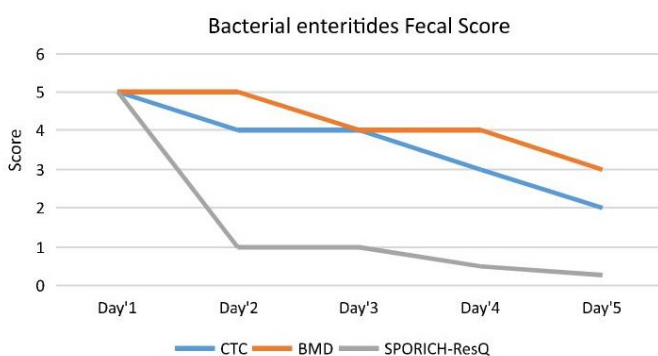
- *Bacillus coagulans* (SAN 135BC)
- *Saccharomyces boulardii* (SAN 158SB)



Properties of Probiotic species in SPORICH-ResQ:

- *Bacillus coagulans* (SAN 135 BC) is a Gram Positive Facultative Anaerobic Probiotic having the ability to produce bacteriocins & bacteriocins like substances (Coagulin) & L-Lactic Acids with broad activity against various strains of *Salmonella*, *Coliforms*, & *Clostridium species*
- *Saccharomyces boulardii* (SAN 158 SB) is a Monogastric specific yeast with documented activity against *Salmonella* and a range of other microbes in the poultry gut.
- **SPORICH- ResQ** is a combination of *Bacillus coagulans* & *Saccharomyces boulardii* which thrive & act specifically to control & prevent Loose Droppings, Diarrhoea, Vent Pasting & Stress caused by a variety of Microbial Pathogens in Poultry

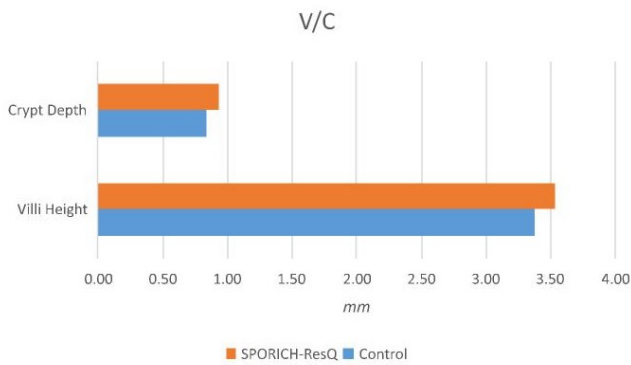
INVIVO STUDIES / FEILD TRIALS



1. Comparative field trial data of **SPORICH- ResQ** vs. Antibiotics from a Broiler Farm affected with Bacterial enteritidis

2. Comparative *Clostridium perfringens* Microbial Assay data of **SPORICH- ResQ** vs. Control from a Broiler Farm affected with acute diarrhoea





3. Comparative Villi height, Crypt depth & V/C ratio data of **SPORICH- ResQ** vs. Control from a Broiler Farm affected with Bacterial enteritidis

Conclusions form Broiler Field Trials:

1. **SPORICH-ResQ** reduces Faecal Score from 5 to 1 within one day of usage & is highly affective as compared to antibiotics
2. **SPORICH-ResQ** effectively reduces the microbial counts of *Clostridium perfringens* in both Jejunum & Ileum thus controlling associated diarrhoea
3. **SPORICH-ResQ** restores Villi height & Crypt depth thus enhancing nutrient absorption post acute/chronic diarrhoea and ensurse faster recovery from stress

Mechanism of Action:

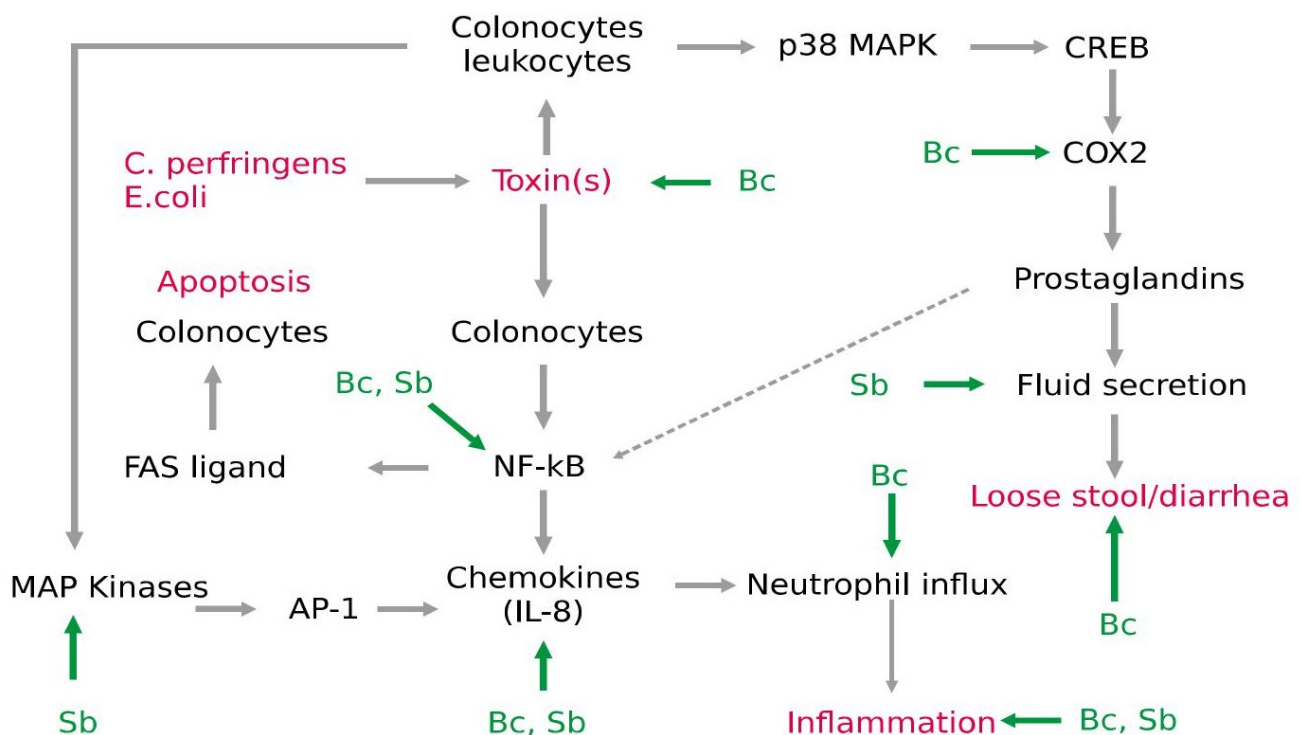


Figure 1: Illustration of Immunomodulation by *Bacillus coagulans/Saccharomyces boulardii* for disease prevention. *Clostridium perfringens* and *Escherichia coli* associated toxins (particularly toxin A) result in the nuclear factor-kappa B (NF-kB) activation, interleukin (IL)-8 production, neutrophil influx and inflammation. The green arrows in this figure represent specific points of intervention by certain probiotics, resulting in immunomodulation by these agents. The abbreviations indicate the specific probiotics, which can modulate these signal transduction pathways. These probiotics (green font) include: *Saccharomyces boulardii* (Sb) and *Bacillus coagulans* (Bc)

Key Benefits:

- **SPORICH- ResQ** Effectively controls Loose Droppings, Diarrhoea & Vent Pasting caused by a variety of Microbial Pathogens
- **SPORICH- ResQ** Re-establishes Gut Microbiota Post-Antibiotic Therapy
- **SPORICH- ResQ** Reduces Stress Impact caused by Multiple Factors
- **SPORICH- ResQ** Binds & Neutralises Bacterial Endotoxins
- **SPORICH- ResQ** Maximises Economic Gain by Controlling Morbidity & Mortality

SPORICH™-ResQ

SPORICH-ResQ contains *Bacillus coagulans* (SAN 135 BC) & *Saccharomyces boulardii* (SAN 158 SB) which thrive & proliferate across the gut – compatible with Antibiotics / Feed Additives / Acidifiers / Enzymes / Minerals / Disinfectants

Available as both
FEED ADDITIVE & WATER SOLUBLE in

- 5 Billion CFU/g,
- 10 Billion CFU/g,
& Customized Potencies

Suggested Feeding / Inclusion Rate:

Broiler/Layer/Breeder

Feed

- **SPORICH-ResQ 5B (FS)** @ 200g – 250g / MT
- **SPORICH-ResQ 10B (FS)** @ 100g – 125g / MT

Drinking Water

- **SPORICH-ResQ 5B (WS)** @ 50g – 75g / 1000 Birds/Day
- **SPORICH-ResQ 10B (WS)** @ 25g – 40g / 1000 Birds/Day

Physical appearance: Free flowing, off white colour powder

Storage: Store in cool & dry conditions protect from direct sunlight

Shelf life: Best before 18 months from the month of manufacture

Packing: Available in 25kg & customized packs

