

# REMIDEX® PV

## Works through superpower of Bdellovibrio

Gut health is essential for good growth and FCR. Gut health relies on acquisition and maintenance of a balanced gut flora. Gut health relies on the proper development of the gut tissues. Intestinal tract is the largest organ in the body and contains ~70% of Animal immune cells. Intestinal tract is a larger in terms of % of overall body weight early in life

Bdellovibrio is gram negative, aerobic bacteria. It is predator bacteria which attacks and consumes other bacteria including the well-known pathogens like *Aeromonas*, *Vibrio* and other gram negative pathogenic bacteria.

Bdellovibrio is natural predator bacteria found in ocean and fresh water as well is in soil to scavenge harmful pathogenic bacteria and can survive even at high temperature up to 87°C. it also can survive both in aerobic and anaerobic environment- but it works faster in presence of oxygen

### Mode of action

Attack prey bacteria --> Grow and occupy periplasmic space causes lysis by producing hydrolysing enzymes -->again attack another prey bacteria

- ❖ Can move 100 cell lengths per second
- ❖ Grows inside the prey cell and can increase its length up to 20 times
- ❖ Cell then bursts and the cycle repeats
- ❖ Moves at a speed that is equivalent to a human running at 600 km/hr
- ❖ Bore into the prey cell at over 100 rotations per second

### Benefits:

- Holistic approach- no hassles of antibiotic & chemicals
- Selectively kills gram negative pathogens and allows probiotic gram-positive bacteria like *Bacillus* to grow
- Found to be effective even at palletisation temperature
- Newer solution- more likely to effective
- *Bdellovibrio* reduces cecal abnormalities and results in increased weight of cecal contents.
- *Bdellovibrio* species are reported to be unable to prey on eukaryotic cells, and as such they pose no direct risk to human or animal health
- *Bdellovibrio bacteriovorus* HD100 is a good predator in *in vitro* assays on *Salmonella* Enteritis prey, effectively reducing *Salmonella* numbers by 97% during a 24-h incubation period

### Dose recommendation:

- i) 500gm / ton in Feed mills ii) 1 Kg / ton in farm feed application
- ii) 3 - 5 Kg / Ha (depend up on DOC, culture condition and SD)

**Presentation:** 1 KG and 5 Kg pack standing pouch

### Manufacturing and Marketed by:

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