




The only product for
Innate Immunity





Innate immunity is an immunological subsystem that comprises of cells and mechanisms that provide the first line of defence from infection. Innate immune responses are rapid and are non-specific. Microbes have unique signatures called as **PAMPs** (Pathogen associated molecular patterns) which stimulate innate immunity. The immune cells recognize pathogenic bacteria through specific **PAMPs** using Pattern recognition receptors (**PRRs**). Once this fit is established, the innate immunity is activated by triggering phagocytes.

For the first time in Asia, **QUADRAGEN** introduces the product for INNATE IMMUNITY i.e, 

 has specific PAMPs similar to those found in the cell membrane of E. coli & Salmonella. These PAMPs are presented to the Peyer's patches system, activating mucosal protection system and increases non-specific defense mechanism through macrophages, dendritic cells, neutrophils, mast cells, etc. Therefore, phagocytosis of microorganisms occur. Hence Innate immunity becomes very critical in developing very good intestinal health and preventing infections like E. coli & Salmonella.



Composition

Specific **PAMPs** of E. coli & Salmonella.



Packing
1 L





Benefits

- Reduce enteropathogens like E. coli & Salmonella
- Reduce bacterial shedding
- Tight junction integrity is maintained
- Stimulate GI development
- Change intestinal environmental microbiota
- Quick action
- Reduce antibiotic use



Usage

250 ml / 1000 birds in drinking water

Broilers: 3rd or 4th day &
In cases of severe outbreaks 15th day
after first dose or as suggested by
Veterinarian

**Layers &
Breeders:** 3rd or 4th day &
16th or 20th week

Do not use acidifiers/sanitizers with Innaté



SPECTRUM OF VIBRANT PRODUCTS FOR LIVESTOCK



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