

TITER-CARE™

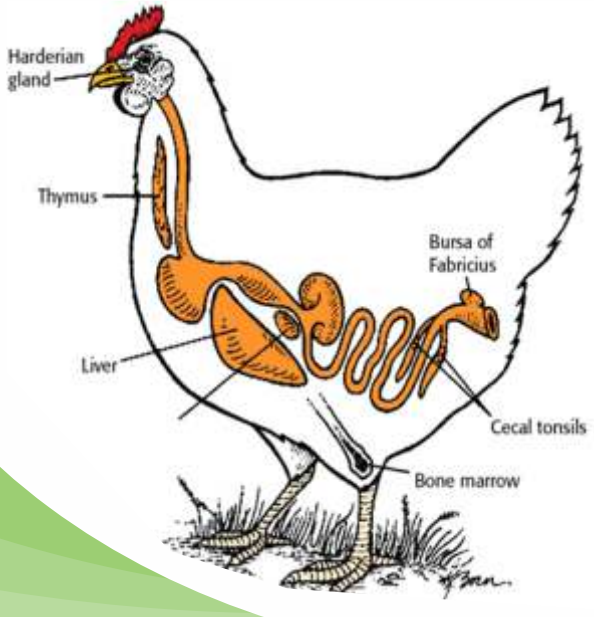
MAINTAINS HOMEOSTASIS FOR BETTER ANTIBODY RESPONSE

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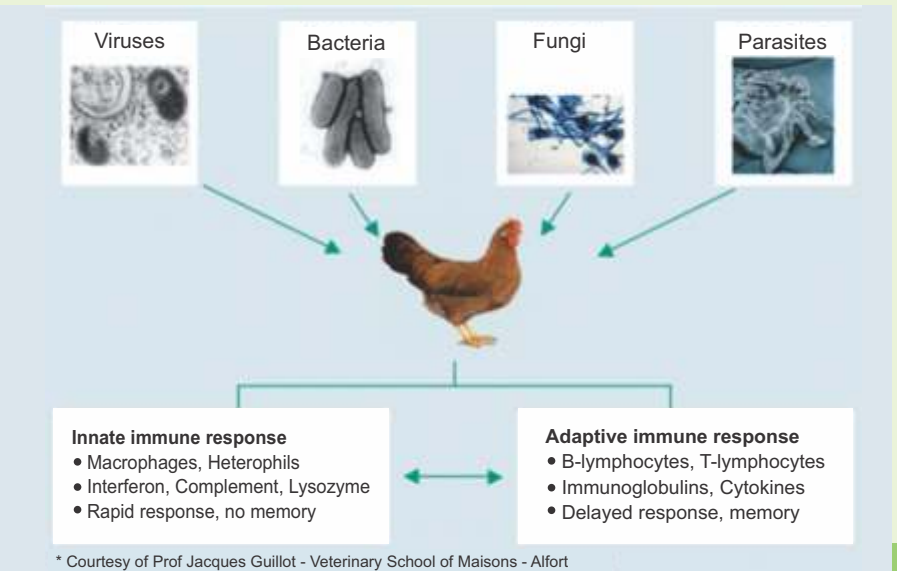
Improves the immunity in the birds

Golden rules in the poultry industry is, "only with healthy birds it is possible to get high productive efficiency and economic profitability." Poultry on regular basis is exposed to several types of immune-suppressing agents, like the mycotoxins, variety of stress factors, oxidative stress and reactive oxygen species, certain diseases and conditions and nutritional imbalances and deficiencies, all having negative impact on the immune system of the birds. A compromised immune system cannot protect the birds from infections and problems, **and needs to be regularly supported.**

The poultry immune system, is a complex network of organs, cells, and molecules that defend against pathogens.The poultry immune system, possesses unique features and strategies for protecting birds from disease.

In poultry, the organs associated with the immune system are the primary lymphoid organs, including the thymus, bone marrow, and a unique lymphoid organ located in the rump called the bursa of Fabricius.The bursa of Fabricius amplifies, differentiates, and matures a type of white blood cells called B cells, and is very active in young chickens, disappearing when the bird reaches maturity.

The spleen, Harderian gland, pineal gland, and other lymphoid tissues are also part of the immune system.These lymphoid tissues are strategically located where foreign matter enters the chicken's body. Chickens also have a lymphatic circulatory system and capillaries that communicate with the bird's blood supply to transport the lymph fluid throughout the body.



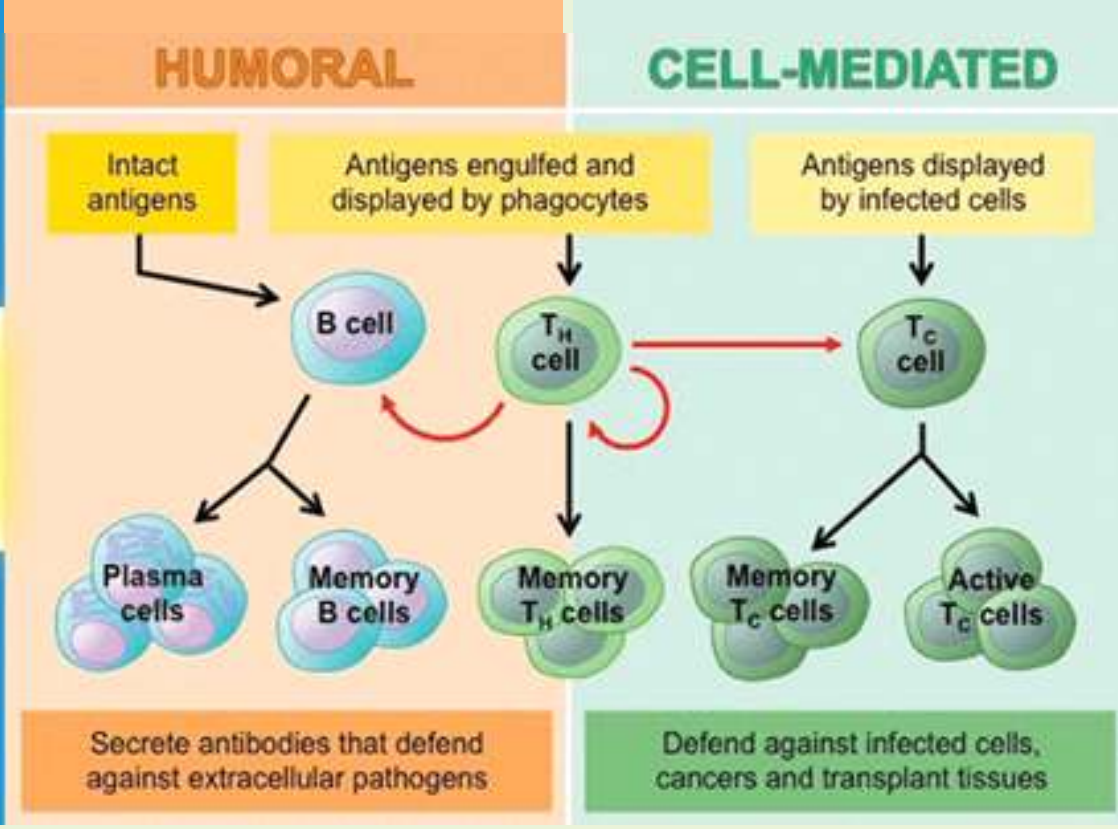
* Courtesy of Prof Jacques Guillot - Veterinary School of Maisons - Alfort

It involves both innate and adaptive immunity, utilizing various cells, tissues, and molecules to combat pathogens. Birds have lymphoid tissues, producing the B cells,T cells, cytokines, and chemokines, similar to mammals. However, they also have special organs, such as the Bursa of Fabricius, a unique lymphoid organ involved in B cell development and the Thyroid producing the T cells,.

Humoral Immunity

VS

Cell mediated Immunity



Maternal Immunity: All Chicks are born with maternal immunity, they receive this immunity from their mothers through antibodies in the yolk and albumen of the egg during the process of Incubation.

Humoral Immunity in poultry, these are the circulating antibodies, liquid in form, present in the blood of the birds and are a crucial part of their adaptive immune system, is largely mediated by antibodies produced by B-cells after receiving the vaccine. These antibodies, also known as immune-globulins, play a vital role in recognizing and neutralizing pathogens like viruses, bacteria, and fungi. They are highly specific, meaning an antibody produced against a specific antigen (like a protein on a virus) will only bind to that specific antigen.

Cell Mediated Immunity: (CMI) in poultry is an aspect of the adaptive immune system that relies on specialized immune cells, primarily T lymphocytes, and memory cells to eliminate intracellular pathogens and antigens. Unlike humoral immunity, that are circulating, and focuses on extracellular antigens, CMI plays a vital role in defending against viral infections, bacterial infections within cells of the body.

Health of the Immune System : The immune system health depends upon the water-electrolyte balance (homeostasis), nutritional balance and fulfilment, prevention of stresses and suppression of immune system due to mycotoxins in feed and immune stimulants to activate/reactivate the system.

The combination of ingredients used, individually and in combination support one another to bring about homeostasis in the birds body protecting it from the problems of field.

Considering the above facts and keeping them in mind, we, at B.S. Group have launched the product **TITER-CARE™**. This product helps to produce more antibody from antigen to maintain homeostasis.

Composition:

Each 5 ml Contains:	
Vitamin C	11 mg
Vitamin E	13 mg
Glycine	50 mg
Potassium Chloride	5 mg
Selenium	0.5 ppm
Sodium Chloride	6.25 mg
Sodium Citrate	11.5 mg
Amino Nitrogen	10500 ppm
Yeast Extract	10.5 mg
Manganese Sulphate	2.5 mg
L.P.O	Q.S



With Polysaccharides in fortified base.

Indications :

· To reduce stress and vaccination failure.
· To protect from disease outbreak (bacterial and viral).
· For overall immunity.

Usage Instructions:

Chicks/growers Broilers: 5-7 ml for 100 chicks/birds.
Layers: 10 ml for 100 birds or as recommended by the veterinarian.
Feed Premix- 1Kg of **TITER-CARE™** Premix per ton of feed

Presentation:

1 Ltr., 5 Ltr. & 25 Ltr.
20 Kg. Bags.

POULTRY FEED SUPPLEMENT
NOT FOR HUMAN/ MEDICINAL USE

Manufactured by:

B.S. Biotech Pvt. Ltd.

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