



MASTIMED

(Enzymatic and Natural Solution for Control of Mastitis)

PRODUCT DESCRIPTION:

Bovine mastitis is the persistent, inflammatory reaction of the udder tissue due to physical trauma or microorganisms infections. Mastitis, a potentially fatal mammary gland infection, is the most common disease in dairy cattle worldwide. It is also the most costly disease in the dairy industry. Milk from cows suffering from mastitis has an increased somatic cell count. Prevention and Control of mastitis requires consistency in sanitizing the cow ban facilities, proper milking procedure and segregation of infected animals. Mastitis is associated with downgrading of milk quality and decrease in milk yield.

Some of the features of Mastitis are:

- Physiological changes in mammary udder tissue.
- Inflammatory changes in mammary parenchyma with increased somatic cell count in milk.
- Pathological changes due to presence and growth of infectious pathogens.
- Decrease of milk production..
- Deteriorated milk quality.

Control and prevention of mastitis losses in animals require early detection of inflammatory signs and maintenance of healthy udder.

- The conventional treatment using systemic and intra mammary antibiotic has several limitations like:-
- Limited effectiveness due to broad spectrum of mastitis causing pathogens.
- Resistance problem due to indiscriminate use of antibiotics.





- Risk of antibiotic residues and the additional losses of milk during the withdrawal period.
- Relapse of the problem as treatment often fails to completely remove the infection though may improve clinical condition.
- Difficult to restrain the animal while giving intra-mammary infusion, veterinarian aid is essential.
- Prophylactic aspect is not taken care.
- The most obvious symptoms of mastitis are abnormalities in the **udder** such as swelling, heat, hardness, **redness**, or pain etc. and the milk feels like **watery** appearance.

The incidence of recessive mastitis is higher especially in dairy farms where the environmental sanitation is poor, disinfection is not strict and the management is not proper. In order to prevent the occurrence of recessive mastitis, many farms add a variety of drugs in the feed, but the effect is uneven, and some add higher costs. The use of selective natural enzymes can significantly reduce the use of antibiotics, chemical preservatives and other harmful substances that are harmful to human health, so as to achieve no antibiotic residues in milk.

WHAT IS MASTIMED

MASTIMED is a special enzyme blend that catalyses the hydrolysis of beta-linkages in glycosaminoglycan chains interlinked with short peptides which is the major component of bacterial cell wall. This hydrolysis in turn compromises the integrity of bacterial cell walls causing lysis of the bacteria.

MASTIMED has strong antibacterial effect on Gram positive bacteria, and has a good inhibitory effect on some gram negative bacteria, especially for drug-resistant bacteria.





MASTIMED combined with antibiotics can increase efficiency by 2-10 times, reduce the dosage of antibiotics, and effectively control drug residues. Moreover, the main pathogens causing mastitis are Staphylococcus aureus, Streptococcus, Escherichia coli and so on. Therefore, adding MASTIMED into feed has a good preventive effect. It's a non-toxic, harmless and high safety base protein product safe to handle by people.

Indications:

- Prevention of Mastitis.
- For improving milk quality.
- For promoting udder health.

Dosage:- 3-4g per cow/buffalo.

SHELF LIFE: 24 months from the date of manufacture.

PACK & PRESENTATION: 100g Aluminium foil pouch AND 10 KG.PACK

Storage: MASTIMED should be stored in a cool dry place away from sunlight.

