



SILAGE - PLUS SILAGE PROBIOTICS

An Optimal Probiotic blend to improve silage Fermentation



SILAGE is defined as Grass and plants that are preserved and used for feeding animals. Silage crops when harvested at the proper stage of maturity usually have a high concentration of protein, and are good sources of minerals. However, they have low concentrations of fermentable carbohydrates. Hence, beneficial bacteria are supplemented with a synergistic blend to rumen fluid through livestock fodder. The main goal of silage making is to preserve as much of the nutritional value of the original crop as possible. Probiotics [Silage- plus] play an important role to preserve the nutritional balance as they ferment Water Soluble Carbohydrates under anaerobic conditions and produce lactic acid, which lowers the pH, a condition that inhibits growth of other pathogenic microorganisms in the animal body. To control the ensiling process, to improve quality and to inhibit unwanted microorganisms, Probiotics [Silage- plus] are used as additives in silage making especially with organisms like *Lactobacillus plantarum*, *Lactobacillus acidophilus*, *Lactobacillus buchneri*, *Pediococcus acidilactici* and *Lactic Acid Bacillus*[LAB].



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Benefits of Silage - Plus

- ▶ Helps in breaking down plant sugars and make it available for body metabolism easily
- ▶ Reduces energy loss by reducing protein solubilisation thus increasing the animal performance
- ▶ Maintains the animal body to inhibit pathogenic organisms by outnumbering with good bacteria
- ▶ Supplements the inactive microorganisms present initially in the matter to enhance the positive growth of good microorganisms
- ▶ Increase of milk production in dairy stocks because of enhancement of body metabolism with nutritive enzymes and microflora
- ▶ Reduces the likelihood of clostridial activity which produces butyric acid that is harmful to animals
- ▶ Gives a pleasant flavour and aroma that animals comfort
- ▶ Produce large amount of good bacteria in short time
- ▶ Acid Tolerance to animals
- ▶ Ability to grow at temperatures upto 50°C and in low water activity

Effect of Silage - Plus

Silage - Plus is generally effective with :

- ▶ Cooler wilting temperatures
- ▶ 50 % to 70 % moisture content
- ▶ Shorter wilting time (24 hours or less)

Silage - Plus is generally not effective with:

- ▶ Low sugar content in plants
- ▶ Low level of cfu/g addition
- ▶ Long wilting times

Dosage

100 grams per 1000 kgs [MT] of green fodder

Usage

- ▶ Dissolve 100 grams of **Silage - Plus** in 1 Litre of water and spray on 1000 kgs [MT] of chopped green fodder.
- ▶ Ready mix should be used within 24 hours of preparation

Storing & Shelf Life

- ▶ **Silage - Plus** must be firmly packed to minimize the oxygen and moisture entry
- ▶ 24 months shelf life from the date of manufacturing



Bioviv Life Science Inc
www.bioviv.in