



### Introduction:

Research has proved that Enzymes in combination with probiotics when used in cattle feed has a significant inbuilt potential to improve feed utilization and production performance. A careful selection of specific enzyme and probiotic are used to degrade the plant origin feed stuff and breaking down dietary energy sources which is one of the major activities of rumen microflora.

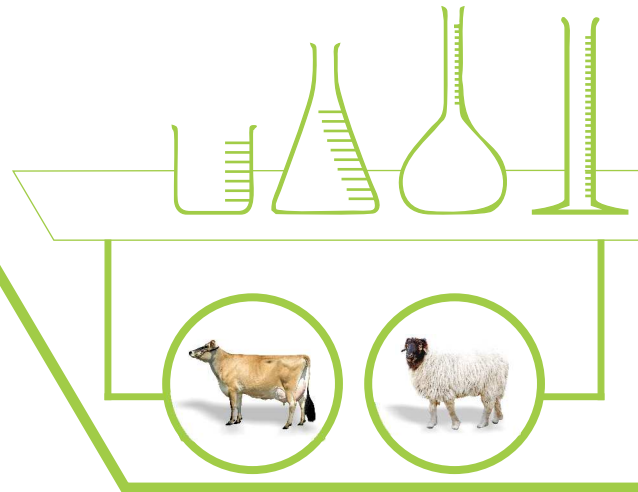
The fiber digestions of feed in ruminants are often impaired due to low intestinal pH where the feed enzymes are seen to be very beneficial. When the rumen pH is low, the enzyme exhibits its highest level of activity.

### Role of Enzymes and Probiotics: Eco friendly way of prevention & treatment

*Saccharomyces boulardii* is a non-pathogenic, non colonizing yeast that has been shown to have probiotic effectiveness in clinical applications. *Saccharomyces boulardii* takes shelter in intestinal tract producing products useful for the animal body. It is resistant to gastric acidity and proteolysis when taken orally. It establishes itself rapidly after administration in the gastrointestinal tract and controls the population of less beneficial microorganisms. Apart from acidosis, it is popularly used for controlling diarrhea associated with antibiotics and traveler's diarrhea. It is also recommended for diarrhea related to the inflammatory bowel condition known as Crohen's diseases.

Papain is a proteolytic enzyme, characterized by the ability to hydrolyze large proteins into smaller peptides and amino acids. Its broad substrate specificity and ability to hydrolyze small peptides as well as large proteins make Papain an ideal enzymatic supplement. Papain has a mild, soothing effect on the rumen and is an excellent aid in protein digestion.

Microbial probiotics like *Lactobacillus Acidophilus* and *Lactobacillus sporogenous* have been reported to have many beneficial effects when they are used in animal feeds that include competitive exclusion of pathogens and improved digestion and absorption of nutrients. It also improves the intestinal balance and inhibits the growth of pathogens in the gut.



During Anorexia and Ruminal Atony there is always a deficiency of amino acids which is compensated by external supplementation of amino acid from ADDPro that provides an optimum nutritional balance for the host animal.

### What is ADDPro ?

ADDPro is an ideal eco-friendly solution for various digestive disorders in Ruminants. It is a combination of Enzymes, Amino acids, Probiotics, and Soya Bean meal that offers one of the best natural solutions for Anorexia, Diarrhea, Ruminal Atony, Acidosis and abnormal faeces.

### Ruminant Disorder occurs due to the following reasons :

- Feed quality and quantity of feed administered with contamination with mold, over feeding of greens and concentrates, sudden change in the feed type, use of antibiotics or indigestible rough ages
- Stress due to transportation, disease, climatic changes
- Prolonged antibiotic treatments.

**Appearance :** Off white.

**Recommended usage levels :**

Cattles/Bufalo's/Camels : 2 to 4 bolus daily for 3 to 5 days.

Sheep/Goat/Calves : 1 to 2 bolus daily

**Shelf Life :** ADDPro is stable for 24 months from the date of manufacture.

**Storage :** ADDPro should be stored in a cool dry place away from sunlight. Keep the container closed when not in use.

**Packaging :** ADDPro is available as 4 bolus in one strip.

**Enquiries:** We welcome your enquiries for specification, application, assistance or purchase at the address mentioned below :

The information and data contained herein has been compiled based on information we believe reliable. Users should thoroughly test all applications and independently conclude satisfactory performance before commercializations, as these recommendations are non-binding. User's assume all liabilities for use of the Products. We are not liable for any advice which we may have failed to give.

**Management Office:** Advanced Biotechnologies 87/2, All Seasons Place, CRC Tower, 36th floor, Wireless Road, Lumpini, Pathumwan, Bangkok, Thailand 10330 Telephone :+66 2 625 3077 Fax Number: +66 2 625 3000

**Administrative Office:** 202D, Dosti Pinnacle, Road No. 22, Wagle MIDC, Thane, West 400 604, Maharashtra, India Tel: +91-22-25830632 / 33 Fax: +91-22-25830631, Email: info@adbioenz.com, Website: www.adbioenz.com Customer Care No. : +91-9320589281

