

# Profresh Plus

## TMR & FEED STABILIZER

### Product:

A dry granular buffered form of propionic acid used to inhibit the growth of spoilage yeasts and moulds which grow on silage, processed feeds and total mixed rations thereby removing valuable feed ingredients and spoiling sources of forage and grains.

### Ingredients:

**Profresh Plus** is a Preservative for use in yeast and mould control in animal feed. Ammonium propionate 45%. Carriers: Vermiculite, calcium bentonite

### Directions:

Rates of use of **Profresh Plus** are influenced by moisture, temperature, humidity, yeast and mould populations, storage time and handling conditions that affect oxygen availability. These factors should be considered when determining usage rates.

Typical application rates are:

FEED		TMR		SILAGE STORAGE	
Moisture (%)	Usage Rate kg/T	Moisture (%)	Usage Rate kg/T	Area/Layer	Usage Rate
<15	0.5	40-50	1.0	Top layers	2.5 kg/T
15-17	1.0	50-65	1.5	Top surface	300g /m <sup>2</sup>
17-19	1.5	65-75	0.5-1	Shoulders	600g /m <sup>2</sup>

### Storage:

Store in original sealed packaging in a cool, dry place.

For more information on **Profresh Plus** and all other **Micron** products and programs visit our comprehensive site at [www.micronbio-systems.co.uk](http://www.micronbio-systems.co.uk)



# Profresh Plus

## TMR & FEED STABILIZER



Micron Bio-Systems Ltd • BFF Business Park • Bath Road • Bridgwater TA6 4NZ • UK

Email: [info@micronbio-systems.co.uk](mailto:info@micronbio-systems.co.uk) • Tel: +44 1278 427272



# Profresh Plus

## TMR & FEED STABILIZER

### The Challenge

Moulds are a group of microorganisms that cause deterioration of grains, forages and TMR's, produce unpalatable compounds in feed and form mycotoxins that adversely affect animal growth and production. Mould growth is influenced by many factors including moisture, temperature, oxygen and nutrients. Active moulds in animal feeds can cause detrimental consequences to livestock and have a major economic impact on the producer.



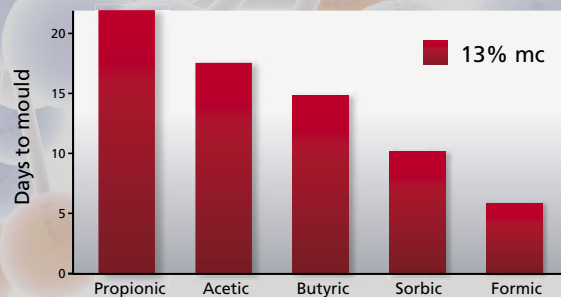
Feed that has been compromised by mould growth has:

- Reduced vitamin content
- Reduced amino acid content
- Reduced energy content
- Reduced palatability
- Increased mycotoxin load.

Animals fed mouldy feed commonly exhibit the following symptoms:

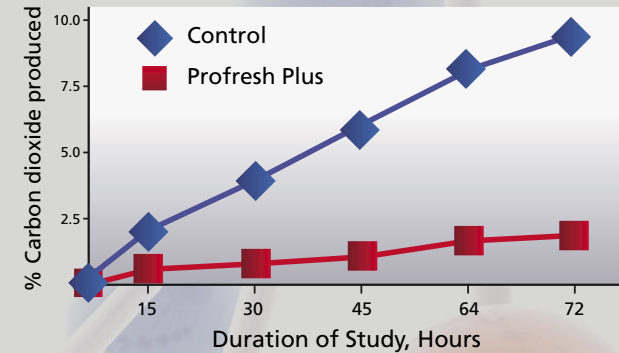
- Depressed animal performance/growth rates
- Lowered feed intake
- Poor feed efficiency
- Reduced resistance to disease
- Increased reproductive problems

Controlling mould growth and or eliminating it's existence is crucial to maintaining quality feed and productive animals. Propionic acid is an effective mould inhibitor and has been shown to be effective at controlling the widest range of moulds typically present on human and animal feeds. Unlike most other organic acids that only inhibit mould growth, propionic acid kills moulds, thereby eliminating the problem.

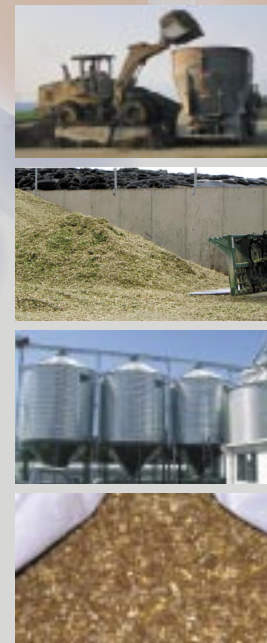


### The Micron Solution

**Profresh Plus** is a dry granular, buffered propionic acid based preservative for use in the prevention of fungal growth in animal feeds, total mixed rations, silages and stored grains. The slow release formula gives effective prolonged control of aerobic spoilage yeast and mould, resulting in higher retained feed value with better intake characteristics in all classes of livestock.



### Application



- Apply **Profresh Plus** to feed and total mixed rations (TMR) at the time of processing or mixing.
- The amount required for optimal control is dependent upon level of mould challenge and moisture level.
- Use **Profresh Plus** as part of a complete silage protection program to minimise feed losses.
- Apply to tops and shoulders of clamps & piles.
- Add to ends of silage bags & the last few loads in towers.
- Add to grains stored in bins to reduce spoilage due to variations in moisture levels during cropping.
- **Profresh** also combats mould growth in grains along bin walls caused by heating and cooling condensation.
- Add **Profresh Plus** to grist and molasses based feeds to retain freshness during summer months.
- Add **Profresh Plus** to high moisture feeds stored for extended periods of time to limit spoilage.