

GrasZyme

SUGARBOOST

*Forage Additive
for Grass Silage*

PROVEN TRACK RECORD ON
IRISH FARMS FOR OVER 30 YEARS



GrasZyme

SUGARBOOST

— Forage Additive for Grass Silage

GrasZyme SugarBoost Forage Additives have been developed with animal performance as the primary focus which is dependent on effective grass preservation. The ultimate aim from the use of GrasZyme is to deliver **MORE MILK** and **MORE LIVE WEIGHT GAIN** at feedout.

HOW DOES GRASZYME WORK?

Quality silage starts with quality grass cut at the correct growth stage to optimise digestibility and yield. The aim of preservation is to retain silage quality as close as possible to the grass being harvested and avoiding unnecessary ensiling losses. GrasZyme SugarBoost Forage Additive, with its multi strain homofermentative bacteria (*L. plantarum*, *L. paracasei*, *P. acidilactici*), working at different pH ranges makes GrasZyme SugarBoost highly efficient at dropping pH with the production of lactic acid. This gives a rapid fermentation with reduced energy loss and protein breakdown.

Grass protein is made up of long chains of bound amino acids which is true protein. During the fermentation process the chains of amino acids are broken down reducing its benefits, so it no longer acts as a true protein. Furthermore, the amino acids can

then be broken down to ammonia, which reduces intake and increases the pH. The role of GrasZyme is to speed up the fermentation process to ensure 20% less true protein is broken down, making it more available to livestock.



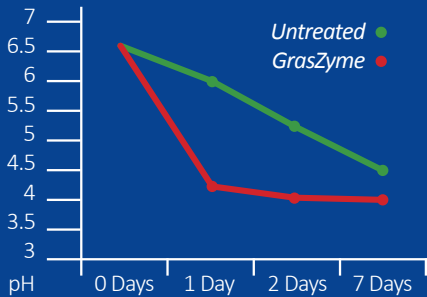
IN A 500T CLAMP
GRASZYME
SUGARBOOST
RETAINS AN
EXTRA
30 TONNES
OF SILAGE



CHOOSING GRASZYME ABOVE THE REST

GrasZyme SugarBoost has long proven itself and is the go to silage preservation aid for over 30 years. This is backed up with findings from research trials undertaken at Agricultural Research Institute NI, Hillsborough, The Scottish Agricultural College (SAC), University College Dublin (UCD), Teagasc, Moorepark and National Institute for Animal Nutrition, Belgium.

Change in pH over time in silages treated with and without GrasZyme



GRASZYME REDUCES FORAGE ENERGY LOSSES, RETAINING THIS ENERGY FOR ENHANCED ANIMAL PERFORMANCE



.09%



DAIRY

8 independent dairy trials show a daily milk yield increase of 1 litre, and a protein % improvement of 0.09%.

MILK YIELD INCREASE **PROTEIN % INCREASE**



110G EXTRA

BEEF

5 independent trials show an average extra daily liveweight gain of 110 grams.

LIVELWEIGHT GAIN



6.1% REDUCED LOSSES



SILAGE

6 independent trials show a reduction in ensiling dry matter losses of 6.1%. GrasZyme speeds fermentation from 2 weeks to 2 days.



Benefits of incorporating GrasZyme into your feeding strategy:

Increased animal performance

Reduced protein breakdown

Better intakes

Reduction in energy losses from the clamp

Higher feed conversion rate

Higher digestibility

Less silage losses

Less effluent

o Reliable even in low sugar conditions

ADVANCES IN TECHNOLOGY WITH GRASZYME

o The presence of *L. paracasei* in GrasZyme can produce a fructanase enzyme if sugar levels are low. This releases additional sugars from fructans unavailable in conventional silage additives. This technology reduces unnecessary plant breakdown and **ensures reliability even in difficult low sugar conditions.**

DAIRY TRIALS

Summary of
GrasZyme Dairy Trials

**Fresh Crop
(at ensiling)**
DM: 17% - 32%
WSC: 3.1*

Number of trials: 8
*Taken from 6 trials

	Silage DM Intake (kg/day)	Milk Protein %	Milk Yield (L/day)
Untreated	11.3kg	3.1%	22.2L
GrasZyme	11.7kg	3.19%	23.2L

BEEF TRIALS

Summary of GrasZyme Beef Trials

**Fresh Crop
(at ensiling)**
DM: 13.6% - 21.0%
WSC: 1.9

Number of trials: 5

	Silage DM Intake (kg/day)	Liveweight Gain (Grams/day)
Untreated	4.9kg	590g
GrasZyme	5.2kg	700g

ENSILING TRIALS

Summary of GrasZyme
Ensiling Losses Trials

Number of trials: 6

	Average Ensiling Losses
Untreated	11.8%
GrasZyme	5.7%

APPLICATION RATES

GRANULAR APPLICATION *20kgs treats 60T of fresh forage*

Add 330g of GrasZyme SugarBoost forage additive to each one tonne of forage.

LIQUID APPLICATION *1kg sachet treats 25T of fresh forage*

Mix each sachet to 25-50 litres of water and apply at 1-2 litres/tonne.

ULTRA LOW VOLUME LIQUID APPLICATION *50g bottle treats 50T*

Using appropriate ULV liquid applicator dilute the product for a final application rate from 10ml up to 2 litres/tonne.

Contact your local Agritech distributor



Ballyanny, Nenagh, Co. Tipperary, E45 RK11, Ireland

www.agritech.ie

Tel +353 (0)67 31590

Fax +353 (0)67 33355



10793N - agritech.ie