**UTRA-SILE**

**SILAGE ADDITIVES RANGE**
For maximum profitability all fermented forages should be treated with an effective additive. This is true for grass silages, wholecrop, forage maize or crimped cereals, whether clamped, baled or ag-bagged. Additives reduce Dry Matter losses, retain more feed value, reduce spoilage, allow reduced reliance on concentrates and increase animal output resulting in greater farm profitability.

Ultra-Sile silage additives work with the natural processes of silage making to reduce both fermentation losses and aerobic losses after the clamp is open. Typically treatment which equates to a cost of around 3-5p / cow / day can be expected to result in over a litre of milk and an extra 40-50 tonnes of silage per 1000 tonnes made. This is true irrespective of whether or not the sun is shining.

**INNOVATION & TECHNOLOGY**
The Ultra-Sile range provides biological and food preservative solutions for use on a wide range of forages and fermentation conditions. Within the range are both conventional homo-fermentative bacteria and new advanced hetero-fermentative types, which have proven much more effective in enhancing the stability of silages.

All biological Ultra-Sile products use multiple strains of bacteria. Different strains are faster and more efficient at different pH and oxygen levels, temperatures and osmotic pressures. The use of multiple strains has the advantage of a faster fermentation and more reliable results over a wide range of conditions.

**ULTRA-SILE FOR GRASS SILAGE**

**ULTRA-SILE GOLD**
Fermentation losses are higher in wetter grass silages below 25% DM than in dryer silages since more acid needs to be produced to preserve the silage. Ultra-Sile Gold reduces these fermentation losses by encouraging a fast, cool homolactic fermentation, typically around 2 days compared to 2 - 6 weeks for untreated silage.

The advantage of this fast cool fermentation is increased energy content and preservation of true protein, which leads to increased animal performance. In addition because fermentation losses are reduced there is typically 4% - 5% more silage in the clamp available at feed out.

Ultra-Sile Gold performs well even in poor silage making conditions. Where sugars are low L. paracasei is able to produce fructanase enzyme to convert fructans into soluble fructose, which is available to the bacteria to produce acid. This is more effective than adding enzymes directly as excess sugar can lead to aerobic instability, heating and growth of moulds on the silage.

**ULTRA-SILE RAPID**
A cost effective alternative to Ultra-Sile Gold. In less challenging ensiling situations with low slurry and soil contamination and with grass crops of reasonable maturity, adequate sugar levels enabled in reasonable weather, Ultra-Sile Rapid will produce results almost equal to Ultra-Sile Gold.

**ULTRA-SILE PREMIUM & ULTRA-SILE DRY**
For grass silages which are prone to heating due to low usage rates or for silages over 25% DM, then Ultra-Sile Premium or Ultra-Sile Dry are best.

These products contain advanced strains of hetero-fermentative bacteria which are able to produce acetic, propionic and other organic acids. Unlike lactic acid, these acids are very effective in inhibiting the growth of moulds and yeasts which cause heating on dryer silages. This can lead to silages that stay cool for longer, have lower mycotoxin levels and with less energy and dry matter lost as heat.

**Spoilage Organism Counts in Grass**

Any heating and spoilage in silage will restrict DM intakes and reduces animal output. Consequently the cost of an advanced, ‘state of the art’ additive is very easily justified.

Ultra-Sile Premium is an exceptional product for grass silage, designed to produce optimum aerobic stability with very good fermentation characteristics and animal performance across a much wider range of dry matters than can be achieved with lactic acid only products.
ARABLE & HIGH DRY MATTER CROPS

ULTRA-SILE ARABLE
High dry matter crops need preservation from spoilage organisms. Ultra-Sile Arable is designed to treat a wide range of high dry matter crops including wholecrop, maize and crimped grain. Ultra-Sile Arable is also particularly suitable for treating high dry matter grass where stability is a particular issue. It has also proved to give good results on low dry matter grass crops.

Many farmers now use Ultra-Sile Arable as their sole additive to treat all their crops. Ultra-Sile Arable is a combination of heterofermentative bacteria, which work together to drop the pH and inhibit the growth of moulds and yeasts resulting in silages, which are generally very stable, have excellent palatability and high intakes.

ULTRA-SILE MAIZE
Ultra-Sile Maize is a similar formulation to Ultra-Sile Arable designed specifically for treating forage maize crops to reduce dry matter losses, maximise feed value and to reduce face heating. Typically stability is improved by at least 5 days compared to untreated silages.

PRESERVATIVES & DUAL-ACTION COMBINATIONS

ULTRA-SILE DUAL-ACTION
A mixture of soluble preservative salts used in conjunction with inoculant bacteria to improve the performance of the preservative salts and enhance aerobic stability of the silage.

Preservative salts only become fully effective once the pH has dropped. Combination with an advanced inoculant is important since a rapid drop in pH results in improved animal performance, reduced spoilage organisms, reduced nutrient losses and rapid achievement of full stability. Ultra-Sile Dual-Action is suitable for use on all high dry matter crops where both stability and animal performance are critical.

ULTRA-SILE LIQUID-COMBINED
A liquid preservative based on sodium benzoate and sodium nitrite used in combination with an advanced inoculant. This gives stability and also inhibits clostridia and listeria, which can be a problem in silages to provide stable and safe silages for a range of forages with the added advantage that full stability is reached very quickly and the clamp can be opened and fed after a couple of days.

All the active ingredients used in the Ultra-Sile range have been fully trialled and have EU registration as silage additives under EU1831(2003).

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ULTRA-SILE
The Ultra-Sile range of products is designed to provide solutions for every forage fermentation situation.