

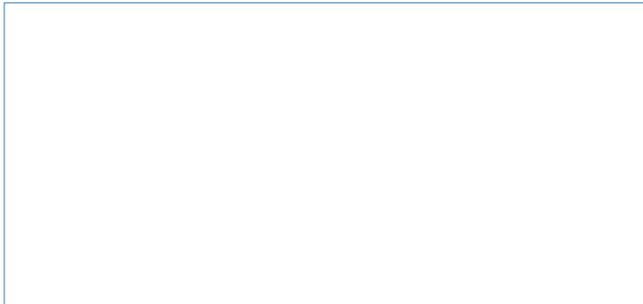


When you buy Biotal you
get more than just an
inoculant.

Biotal's fully researched, registered, globally proven and specific forage inoculants come with the most comprehensive technical support services available to help you get the most from your forage, including:

- Training for contractors or farm staff to ensure best practice use of inoculants
- Advice on cutting date and inoculant choice to help achieve the best fermentation
- Crop walking and training to identify cereal stage of maturity
- Advice on how to achieve the most effective fermentation
- Forage analysis and review of silage making to identify improvement opportunities

Together Biotal's unequalled technical support and crop and condition specific inoculants can help you produce forage that delivers better performance.



BIOTAL
wholecrop
gold

**Develop your full potential with
fermented Wholecrop**



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Unleashing the value of your forage

Wholecrop cereals can produce a starch rich forage crop, with a high dry matter yield, from a single cut system. They also provide a useful source of effective fibre which helps to maintain a healthy rumen function.

Wholecrop silage is relatively easy to preserve. However, its high starch and sugar content mean it is vulnerable to aerobic spoilage (heating).

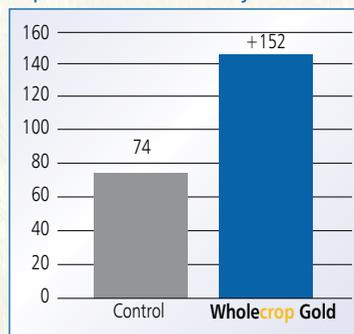
Wholecrop Gold is specifically formulated for wholecrop cereals, bringing together a unique combination of bacterial strains with patented enzymes to help produce a highly digestible, well preserved and stable silage.



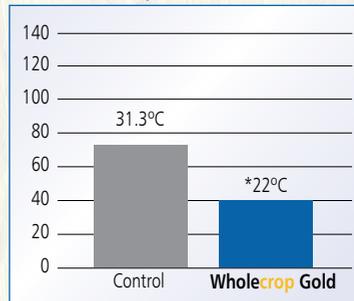
Wholecrop Gold will improve aerobic stability

- Yeasts are the biggest problem in high dry matter forages such as wholecrop cereals. They are responsible for large dry matter and nutrient losses.
- **Wholecrop Gold** contains the patented bacteria *L. buchneri* 40788 which is the original and most successfully trialed bacteria for high dry matter wholecrop.
- It produces a number of powerful antimicrobial compounds which inhibit yeasts and moulds and increase the aerobic stability of the silage during feedout.

Wholecrop Gold Improves Aerobic Stability



Wholecrop Gold limits the maximum temperature reached

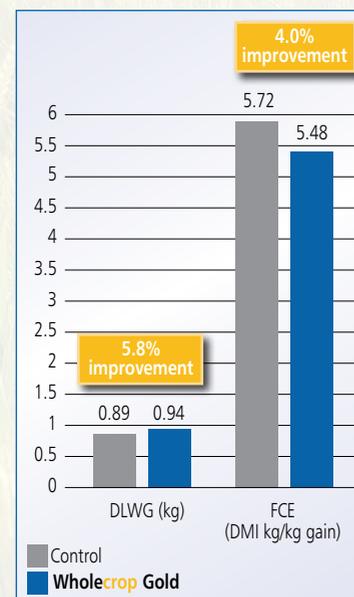
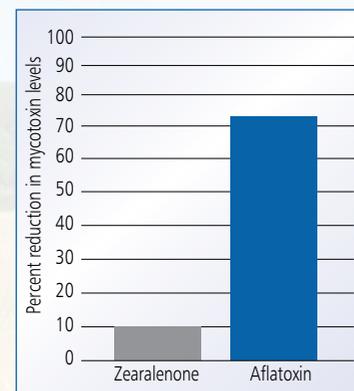


* p < 0.001.

Agri-Food & Biosciences Institute, Hillsborough 2013



Reduction in potential mycotoxin contamination



ADAS, High Mowthorpe

Wholecrop Gold reduces undesirable micro-organisms

Yeasts produce ideal conditions for fungal mould formation if they are not inhibited in the fermentation process.

- As fungi grow in high dry matter forage, there is a risk of mycotoxin contamination.
- This can result in serious animal production and fertility problems.
- The most common mycotoxins found in high dry matter forage are vomitoxin, zearalenone and aflatoxin.
- Aflatoxin in feeds can be excreted in milk as aflatoxin M1 and poses a potential human health risk.
- Biotal **Wholecrop Gold** treated forage showed a:
 - 75% reduction in aflatoxin levels
 - 10% reduction in zearalenone levels

Increased cereal digestibility & performance

- As the cereal crop matures, the amount of hemicellulose fibre increases. This must be broken down to ensure that effective digestion takes place.
- Biotal **Wholecrop Gold** contains a unique, patented enzyme system that degrades this hemicellulose fraction, thereby increasing the feed value of the cereal straw.
- Studies have shown that cereal fibre digestibility can be increased by 12.8% when using Biotal **Wholecrop Gold** compared to untreated forages.
- A greater supply of energy results in higher milk yields or daily live weight gain (DLWG).