

MAXIMUM FEED BACK

Issue 1
March 2005

Welcome to the first issue of Maximum Feed Back, our newsletter developed to bring you timely information about forage technology to help you get the maximum feed back from your forages.

BUCHNERI® 40788

BUCHNERI® 500

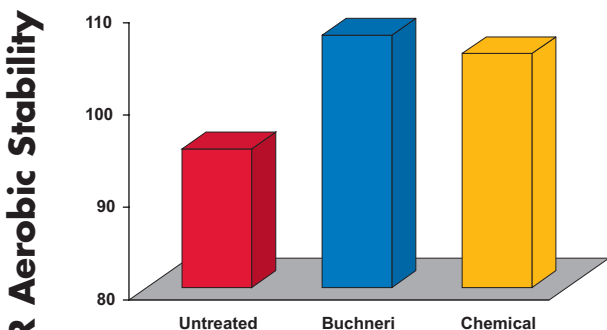
The Center for Veterinary Medicine of the FDA has agreed to allow an important functionality claim for Lallemand forage inoculants containing *Lactobacillus buchneri* 40788 - "for improved aerobic stability of silage and high moisture corn stored for not less than 60 days". This claim is linked to the high rate of application (400,000 CFU/g on silage and 600,000 CFU/g on HMC) as validated in Lallemand's considerable trial dossier.

**FDA
REVIEWED**

Lactobacillus buchneri NCIMB 40788 from Lallemand has shown a remarkable ability to enhance the aerobic stability of silages. Like some yeasts, this organism metabolizes lactic acid. However, it converts only moderate amounts of this acid, producing acetic acid. Acetic acid is highly antifungal and its accumulation suppresses the growth of yeasts that are responsible for spoilage.

Combined with our elite *Pediococcus pentosaceus* 12455 in Buchneri 500, our premium product delivers:

- ✓ Fast, efficient fermentation
- ✓ Consistent reduction of yeast and mold spoilage
- ✓ Less wastage
- ✓ Increased dry matter retention - more forage to feed
- ✓ Better hygienic feed quality for improved stability at feedout



Numbers with different superscripts are statistically significantly different $P < 0.05$



Best Management Practices: Prepare for the season

Now is a good time to review management factors that make all the difference in producing top quality forage.

- ◆ Prepare fields: remove large stones, get the surface as flat as possible.
- ◆ Pick the right crop and variety to suit your objectives and location.
- ◆ Make sure equipment and silos/bags/bunkers are in good repair: downtime seriously affects silage quality!
- ◆ Avoid over use of fertilizer and time applications correctly.
- ◆ Harvest at optimum growth stage.
- ◆ Use a proven inoculant with good independent data. Make sure it is packaged and handled correctly.
- ◆ Optimize chop length setting.
- ◆ Fill quickly, consolidate thoroughly, pack every load properly (achieve minimum packing density of 14 lbs/cu.ft.)
- ◆ Cover and seal the silage.
- ◆ Maintain proper feed out rate, keep surface smooth and tidy.
- ◆ Balance the ration properly: once produced, silage quality is fixed; the rest of the ration should be adjusted for best performance!

For a free comprehensive forage management guide (available in English and French), call 800-692-4700 or e-mail LAN_NA@lallemand.com.

BUCHNERI 500 BIOTAL PLUS® II

Lallemand has gained formal approval from the Organic Materials Review Institute (OMRI) for the use of its forage inoculants, OU-Biotol Plus II and OU-Buchneri 500, in organic production.

OMRI is a nonprofit organization specializing in the review of substances for use in organic production, processing, and handling. Products that have passed review are included on the OMRI Brand Name Product List.



These approvals will allow organic producers to access world leading forage preservation technologies for the first time.



**The world's best
forage products
from the
forage experts**

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DNA Fingerprinting for Product Purity

To deliver the highest quality product possible, Lallemand incorporates a Total Quality Management System. This system ensures that all steps from lab generation of starter cultures to final product delivery meet the highest standards so that what you read on the product label is exactly what is delivered inside the package.

The Total Quality Management System encompasses three main areas: Micro-organism Purity, Manufacturing, and Distribution.

To ensure purity and consistency, all Lallemand production strains of yeast and bacteria are DNA fingerprinted.



DNA fingerprinting is an exact, proven science that allows us to determine unequivocally that each lot of product contains the proper product strain(s). The specific identity of the strain is tested four times for strain purity and consistency before it is ever put into full scale production.

The Milwaukee, WI, plant recently completed the Good Manufacturing Practices (GMP) audit. Highly focused on product safety, GMP is a standard set forth to ensure that products are manufactured under internationally recognized hygiene conditions.

**The Power
comes from
within.**



Results You Can See

Darrell Showalter is a custom harvester in Linville, VA. His customer base is solid with many repeat customers year after year. Services include mowing and windrowing, chopping, and ensiling corn silage.



Approximately 75% of what Darrell cuts is treated with an inoculant. A majority of those treated tons receive **Buchneri 500**. A Dohrmann applicator is attached to the chopper and applies the inoculant at chopping. "If you keep it clean, the applicator is basically maintenance free," notes Darrell.

Calling himself the world's biggest skeptic, Darrell thought twice about the value of **Buchneri 500** last year when two piles he cut and piled had dramatically different results.

He direct cut barley for Customer A. Two days later he direct cut barley, this time inoculating with **Buchneri 500**, for Customer B. Both piles were packed and covered the same. Both piles were then sold to the same producer who saw a visible difference in mold between the two forages. The untreated pile had significantly more mold, whereas the Buchneri treated forage was stable and mold free.