



UltraSorb R 3.0

MYCOTOXIN REMEDIATOR AND ENDOTOXIN BINDER



UltraSorb R 3.0 with a new and improved formulation not only binds, transforms, and degrades mycotoxins but now has endotoxin binding capabilities!

Ruminants can be frequently exposed to health threatening mycotoxins through feed especially those produced by *Fusarium* and *Aspergillus* species.

Endotoxins are released within the rumen by the death or metabolic activity of gram-negative bacteria, which can result in inflammation reducing production and animal efficiency.

UltraSorb R 3.0 is a comprehensive product and complete solution developed to reduce the negative impact of mycotoxins & endotoxins in ruminants.

Major Benefits

- Preventative control of multiple mycotoxins
- Binds, transforms and degrades mycotoxins
- Endotoxin binding capability
- Maintains and supports growth rates
- Protects natural immunity
- Supports good fertility
- Supports overall performance and profit

Mycotoxin Risk in Ruminants

Mycotoxins are one of the most dangerous hidden threats to livestock health, compromising growth, fertility, disease immunity and overall performance and impact on business profitability.

Symptoms of Exposure

- Reduced milk production
- Impaired rumen function
- Poor growth and reduced body weight
- Reduced fertility issues, abortions
- Immune suppression or over-stimulation
- Possible risks of contamination in milk from Aflatoxin M1

Features of UltraSorb R 3.0

- Live yeast for biotransformation
- *Bacillus* for improved biotransformation and thermostability
- *Bacillus* for probiotic effect
- Endotoxin binding capability



REDUCE THE RISK OF MYCOTOXINS

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Bacillus strains chosen to give the best mycotoxin coverage

Through our extensive mycotoxin detoxification screening, three *Bacillus* strains, B2, B6 and B8 were chosen for the UltraSorb R 3.0 formulation. With two of these strains showing a complete reduction in ZON concentration within 6 hours. (See figure 1 below).

Effect of different *Bacillus* strains on ZON concentration

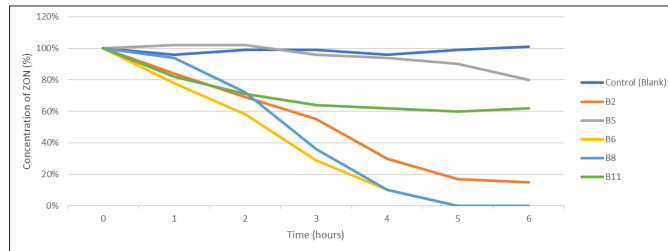


Figure 1

Trialled and Tested

Micron's team of scientists and technicians have been testing, trialling and proving that the UltraSorb range works well, under field conditions for over 25 years.

Results from trials have shown that cows supplemented with UltraSorb showed a continuous increase in milk production as seen in figure 2.

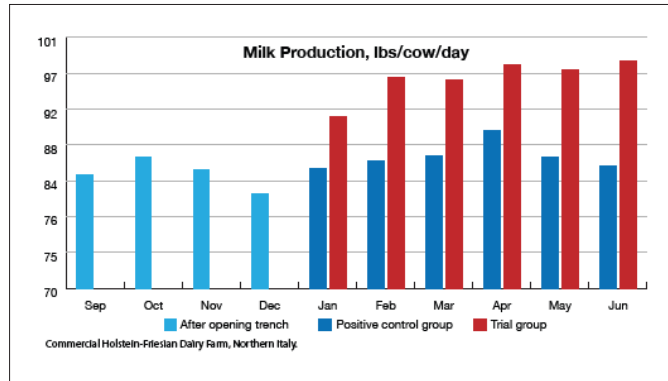


Figure 2

Directions

| Toxin Challenge Level | UltraSorb R 3.0 inclusion rate (grams/h/d) |
|-----------------------|--|
| None | 0 - 5* |
| Low | 5 - 10 |
| Medium | 10 - 15 |
| High | 15 - 20 |

*Included as a preventative level

If Aflatoxins are present in feed contact your advisor at Volac Inc.

In Volac, our binding assay now screens binders at pH3, pH5.8 and pH 6.5 to ensure the best binding quality in our UltraSorb range.

Binding capacity tends to drop as the pH increases, as can be demonstrated by both the endotoxin and aflatoxin screening graphs below, not all binders are effective across pH's and it is important to screen to find the optimal combination of binders.

Endotoxin binding at pH7 at 98°F

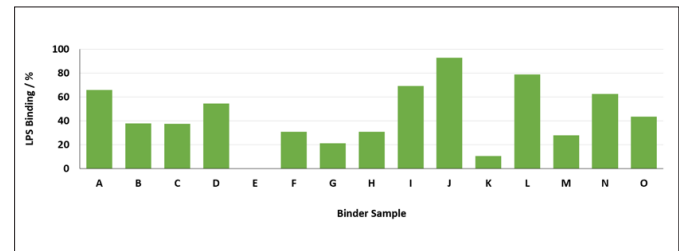


Figure 3

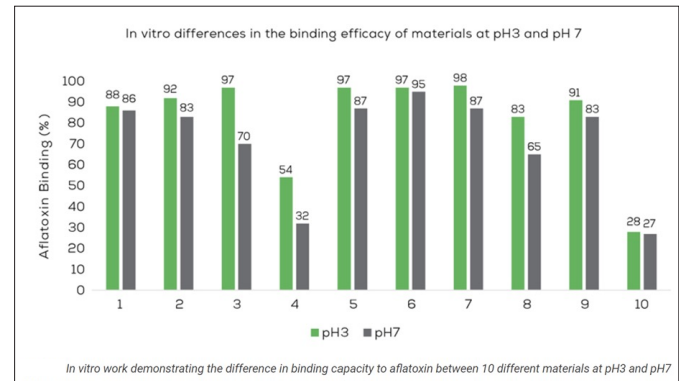


Figure 4

Storage

Store in original sealed packaging in a cool dry place. Keep bag closed when not in use. Shelf life: 2 years.

For more information on the UltraSorb range of mycotoxin remediating products and other products for ruminant production please visit our comprehensive site at: volac.com

volac

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