



ULTRASORB R

MYCOTOXIN REMEDIATOR AND ENDOTOXIN BINDER



RUMINANT

PROTECTING PERFORMANCE - UNLOCKING PROFIT



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ULTRASORB R supporting herd resilience against endotoxin and mycotoxin challenges

UltraSorb R is a mycotoxin remediator and endotoxin binder designed to help dairy producers manage toxin challenges to ruminants.

Endotoxins and mycotoxins can place pressure on animal health, feed efficiency and performance. **The UltraSorb R** range provides a research-backed approach to supporting cows during periods of toxin challenge.

PROTECTING PERFORMANCE - UNLOCKING PROFIT

The Hidden Cost of Toxin Challenge

Over time, mycotoxins can erode herd performance through lower milk production, lost feed efficiency, reproductive losses, and higher disease incidence.

The costs of these losses are highly specific to each farm, but can easily approach \$0.50 and even \$1.00 per head per day in net income. We advocate that dairies should assess critical centers of operation to identify lost efficiency and recover it.

Protecting herd health is essential for remaining profitable!

Symptoms of Exposure

Herds suffering from high mycotoxin and endotoxin loads commonly experience:

- Reduced milk production and components
- Higher somatic cell count and mastitis incidence
- Lower fertility, irregular heats, and higher abortion prevalence
- Acidosis-like symptoms including off-feed events, loose manure and fecal mucous tags

The **ULTRASORB R** solution

What the Research Shows

Endotoxin Management

In vitro studies have observed up to twice the binding efficiency for bacterial LPS compared with other clay materials.

Mycotoxin Binding

In vitro studies have observed 100% aflatoxin binding by clay components in UltraSorb.

Biotransformation

Direct-fed microbial strains have been shown to transform and degrade harmful mycotoxins such as zearalenone and T-2 toxin.

Supporting Resilience During Challenge

Repeated animal experiments have shown evidence of lower inflammation, improved resilience to oxidative stress, and improved performance when supplemented with UltraSorb during complex mycotoxin challenges including deoxynivalenol, zearalenone, and T-2.

Healthier Cows Unlock Profit

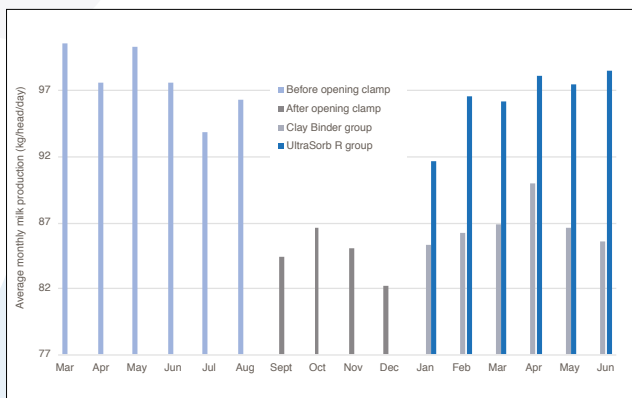
Managing toxin risk helps support:

- Consistent feed intake
- Efficient nutrient utilization
- Reproductive performance
- Lower incidence of disease
- Herd health, production and longevity

Research Results

UltraSorb was tested in a controlled trial on a commercial dairy with three pens per treatment. Cows challenged with DON, T-2, and zearalenone produced more milk per day with **UltraSorb R** compared with a clay binder. (Figure 1).

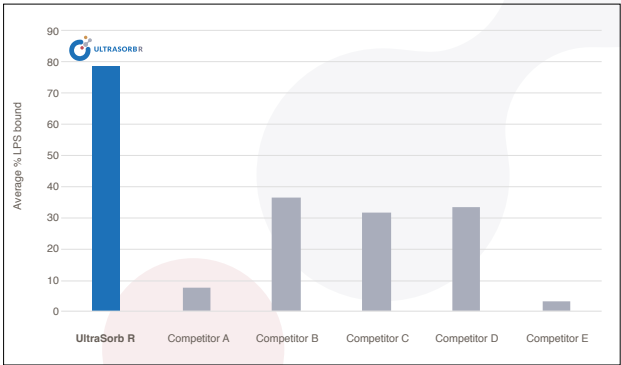
Figure 1: Average milk production on a herd challenged with high risk level of DON, T-2, and zearalenone after opening contaminated corn silage.



Endotoxin Binding

UltraSorb R 2.0 and 3.0 are enhanced to target endotoxins (LPS), which can trigger inflammation and reduce animal productivity. *In vitro* testing shows **UltraSorb R** now has approximately double the LPS binding efficiency of other market-available feed clays.

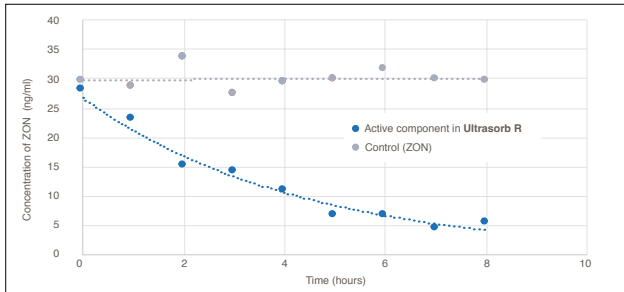
Figure 2. **UltraSorb R 2.0 and 3.0** were found to bind bacterial LPS at greater efficiency than other clay materials on the market.



Mycotoxin Degradation

Not all mycotoxins can be bound effectively. **UltraSorb R 2.0 & 3.0** contain specially-selected microbial strains that have been shown to modify or degrade the chemical structures of multiple mycotoxins. (Shown: zearalenone).

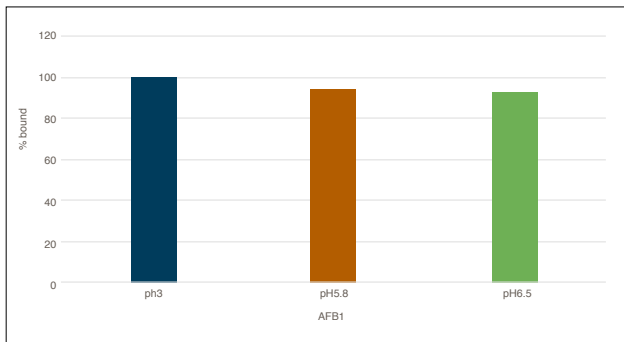
Figure 3. Chemical modification of zearalenone by a direct fed microbial strain in **UltraSorb R** product range.



Mycotoxin Binding

The feed clays in **UltraSorb R** have been shown to bind the most common mycotoxins affecting ruminants. Volac's advanced screening process tests binding capability at three pH levels (pH 3, 5.8, and 6.5) to ensure compatibility with the ruminant digestive tract, creating the most efficient product for supporting cow health and milk production.

Figure 4. Mycotoxin binding efficiency of **UltraSorb R** feed clays at three pH levels.





MYCOCHECK SERVICE

Mycocheck: Identifying Hidden Risks

Mycocheck is Volac's specialist service for measuring mycotoxin risk in feed. It gives nutritionists, feed mills and farmers a clear picture of potential challenges in silage, TMRs and raw materials.

Why use Mycocheck?

- Detects the most relevant mycotoxins for ruminant nutrition
- Provides an independent risk assessment (low / medium / high / very high)
- Supports decision-making for ration formulation
- Backed by accredited laboratory methods for reliability
- Results within **10 working days**

How it works

- **Sample submission** – coordinated with Volac representative
- **Send sample** – silage, TMR, commodities
- **Lab analysis** – using advanced chromatography for accuracy
- **Risk report** – practical summary to guide feed and herd management

The Link to UltraSorb R

Through Mycocheck, nutritionists and farmers alike can understand their mycotoxin risk and the impact it may be having on farm. The mycotoxin risk level will determine the correct inclusion rate of **UltraSorb R** needed to protect the herd and maximize profit.



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The UltraSorb R Range

Choose the **UltraSorb R** solution that best matches the level of toxin challenge in your operation. Work with your nutritionist or Volac representative to confirm final product choice and inclusion rate.

UltraSorb R 3.0

The best-in-class solution to mycotoxin and endotoxin challenges.

UltraSorb R 2.0

Consider using UltraSorb R 2.0 for compatibility with other direct-fed microbials.

UltraSorb R 3.0 & 2.0

Identify desired feeding rate from risk level identified through Mycocheck analysis.



Animal Group		Total Mycotoxin Risk*	
		Low - Medium	High - Very High
Dairy Cows	head/day	10g	20g
Beef Cows	head/day	10g	20g
Calf & Heifer	head/day	3 - 5g	6 - 10g

*Risk levels as defined by a Mycocheck analysis/certificate

Understanding Challenge Level

Low To Moderate Risk

Suitable where toxin pressure is intermittent, seasonal or suspected, and where additional support is required during periods of feed, forage or ration variability.

High To Very High Risk

Suitable where toxin challenge is suspected or confirmed, multiple symptoms are present, or feed efficiency, production, fertility or herd health are being impacted.

Volac is dedicated to developing cutting-edge product-based agricultural solutions and species-specific programs designed to improve animal health and performance.

Mycocheck - The Mycotoxin Analysis Service, available from Volac.

For more information go to volac.com/feed-additives



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Manufactured under an
ISO 9001 registered Quality
Management System



This product was produced
in a facility certified in the
AFIA's Safe Feed/Safe Food
Program. For details go to:
www.afia.org. Facility:50065