ULTRASORB
PROTECTING PERFORMANCE - UNLOCKING PROFIT

ULTRASORB R 3.0

MYCOTOXIN REMEDIATOR AND ENDOTOXIN BINDER



RUMINANT

PROTECTING PERFORMANCE - UNLOCKING PROFIT

ULTRASORB R 3.0

MYCOTOXIN REMEDIATOR AND ENDOTOXIN BINDER

ULTRASORB R 3.0 is the next-generation mycotoxin remediator and endotoxin binder for dairy farmers looking for a reliable, long-term way to get more from their cows.

Over three-quarters of feed samples tested in our lab contain mycotoxins, these toxins pose a significant risk to animal performance. **UltraSorb R 3.0** neutralises a broad spectrum of these toxins, protecting herd health , fertility and enabling more of each cow's energy to be directed towards milk production.

Over time, farmers typically see milk yield gains of 1–2 litres per cow per day — delivering around a 7:1 return on investment. Unlike many other yield-boosting initiatives, **UltraSorb R 3.0** requires no major capital spend — just add it to the ration.

PROTECTING PERFORMANCE - UNLOCKING PROFIT

The Hidden Cost of Mycotoxins and Endotoxins

- Mycotoxins are found in over three-quarters of feed samples tested through Mycocheck
- Invisible losses happen long before clinical signs
- Cows spend energy fighting toxins, not making milk

The impact you don't see, but always pay for:

- 1–2 litres lost milk per cow per day
- Poor fertility and more empty days
- Increased mastitis, lameness, culls
- Gut inflammation leading to lower feed efficiency
- Endotoxins (LPS) add extra stress load
- Even in a 300-cow herd, a modest challenge = £23,000+ lost per year.
- Milk contamination from Aflatoxin (carcinogen)

Symptoms of Exposure

- Reduced milk production
- Impaired rumen function
- Poor growth and reduced body weight
- Reduced fertility, abortions
- Immune suppression
- Immune stimulation
- Faecal mucous tags
- Impaired udder health
- Increased somatic cell counts

The ULTRASORB R 3.0 solution

Triple-action protection tailored for ruminants:

- **Bind** - Minerals capture planar mycotoxins such as aflatoxins
- **Transform** - Yeast fractions bind or detoxify complex-shaped mycotoxins
- **Degrade** - Biologically active agents break down toxins such as DON and ZON into safe forms

Why UltraSorb R 3.0 Delivers

- Proven +1–2 litres extra milk per cow per day
- Reliable ROI (7–9:1 on typical herds)
- Defends against both mycotoxins and endotoxins
- Protects herd health, fertility, immunity
- Easy to use – no capital investment, just add to ration

Your Advantage

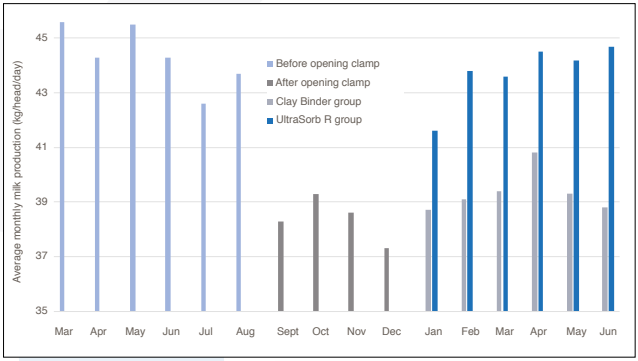
UltraSorb R 3.0 doesn't just stop losses — it unlocks profit:

- Better milk yields and solids
- Stronger fertility and herd longevity
- Lower vet and culling costs
- Consistent performance even in high-risk years

Trialled and Tested

The **UltraSorb** range has been trialled on working farms. In a study in Italy, cows that were challenged with DON, T2 toxin and ZON produced an extra 2-4 litres milk per day with **UltraSorb R** supplementation compared to those fed a clay binder. (Figure 1).

Figure 1. Average milk production on a herd challenged with mycotoxins (medium risk level of DON, T2 toxin, & ZON according to our Mycocheck risk calculation levels) after farmer opened up a contaminated maize clamp





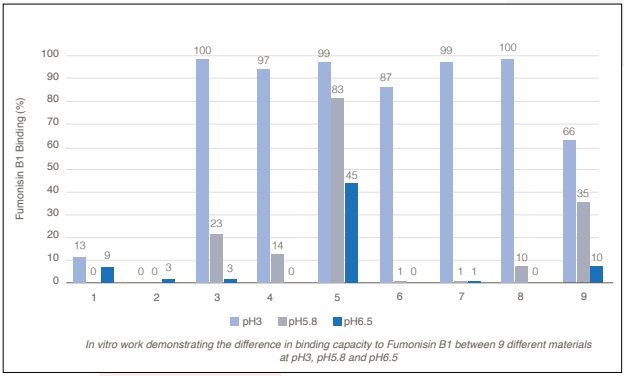


Extra 2-4 litres/cow/day using **UltraSorb R**

Mycotoxin Remediation

UltraSorb R 3.0 delivers reliable protection by binding the most common mycotoxins affecting ruminants. Volac's advanced screening process tests binding capability at three pH levels (pH 3, 5.6, and 6). This ensures that the binders selected are most effective at the specific GI tract pH of the chosen species, creating the most efficient product for supporting cow health and protecting milk production.

Figure 2. *In vitro* differences in the binding efficacy of materials at pH3, pH5.8 and pH6.5

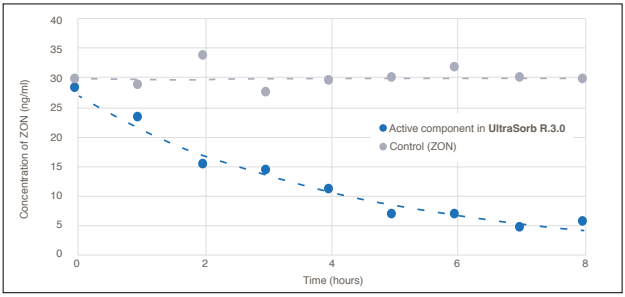


In vitro work demonstrating the difference in binding capacity to Fumonisin B1 between 9 different materials at pH3, pH5.8 and pH6.5

Biotransformation

Not all mycotoxins can be bound effectively, that is why **UltraSorb R 3.0** now contains live yeast for improved biotransformation of those hard to bind toxins. This further protects cow performance and supports efficiency.

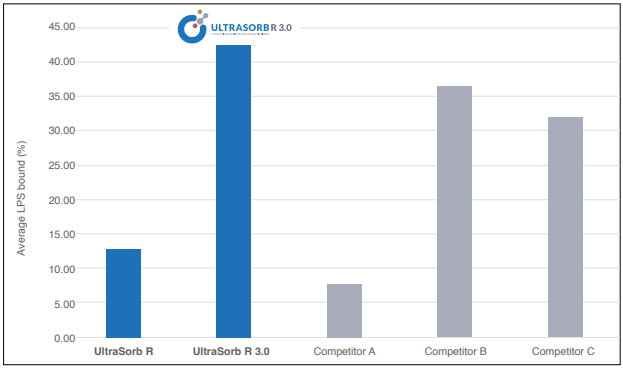
Figure 3. Biotransformation of ZON by **UltraSorb R 3.0**



Endotoxin Binding

UltraSorb R 3.0 has been enhanced to target endotoxins (LPS), which can trigger inflammation and reduce animal productivity. *In vitro* testing shows **UltraSorb R 3.0** achieves stronger LPS binding than other binders tested, helping protect herd performance under stress.

Figure 4. Improved endotoxin binding of **UltraSorb R 3.0** vs 2.0 and competitors







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 kit provided** – simple, clear instructions included
- **Send sample** – silage, TMR, forage, or raw material
- **Lab analysis** – using advanced chromatography for accuracy
- **Risk report** – practical summary to guide feed and herd management

The Link to UltraSorb R 3.0

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 3.0** needed to protect the herd and maximise profit.

MYCOCHECK

UKAS TESTING
8882

ULTRASORB R 3.0

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Ingredients

UltraSorb R 3.0 is a mineral feed for use in ruminant nutrition.
It contains feed materials, zootechnical and technological additives.

Storage

Store in original sealed packaging in a cool dry place. Keep bag closed when not in use. Best before 24 months after date of manufacture.

Directions for Use

		Total Mycotoxin Risk*	
		Low - Medium	High - Very High
Dairy & beef cows	head/day	10g	20g
Calf	head/day	3 - 5g	6 - 10g

*Risk levels as defined by a Mycocheck analysis/certificate

ABOUT VOLAC

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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