



# PRIME TO PROTECT

**Aleta™ primes your horse's immune system to protect against disease and stress.**

Stress from competition, heat, trailering, stall confinement, breeding, feed or social changes and pathogen exposure can challenge a horse's immune system, resulting in reduced performance, respiratory disease and issues associated with leaky gut syndrome (LGS). Including a bioavailable source of beta glucans — like Aleta™ — in the diet can help support the immune system and protect against disease and stress.

## LGS AND STRESS VS. THE IMMUNE SYSTEM

Every horse experiences stress, which increases cortisol levels that in turn suppress immune function. **LGS can further exacerbate the situation as approximately 70% of the immune system is housed within the gastrointestinal tract.**<sup>1</sup> A suppressed immune system and LGS often lead to poor performance and health challenges.

## BETA GLUCANS

Beta glucans are a well-researched class of molecules derived from nature. Found in the cell wall of yeasts, algae, barley, oats, other whole grains and some bacteria, their primary role is to alert the immune system to the presence of foreign substances or pathogens. **Used in both humans and animal nutrition, beta glucans enhance host protective immunity.**

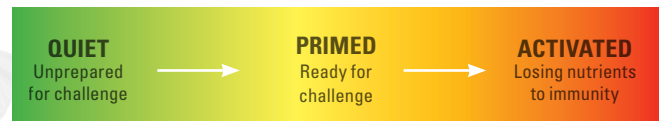
Research shows that by boosting the immune system, beta glucans can provide protective immunity and improve health when a horse is exposed to stressful conditions and diseases.

## WHAT MAKES ALETA DIFFERENT?

**Aleta contains more than 50% 1,3-beta glucans sourced from algae and is the most concentrated, bioavailable source of beta glucans on the market today.** In contrast, yeast products contain only 5-25% 1,3-beta glucans, along with 1,6-beta glucans — which are less bioactive. Commonly made from commercial residues (such as breweries and ethanol plants), yeast products face processing, consistency and contamination challenges, as acids, bases or other solvents are used to extract the beta glucans from the yeast cell wall.<sup>2</sup>

Rather than fully activating the immune system (which depletes available calories), the **beta glucans in Aleta prime the immune system, readying it for any upcoming challenge, without draining crucial nutrients and energy.** In this way, the beta glucans found in Aleta can enhance the immune system's ability to help overcome the impact of stress and disease.

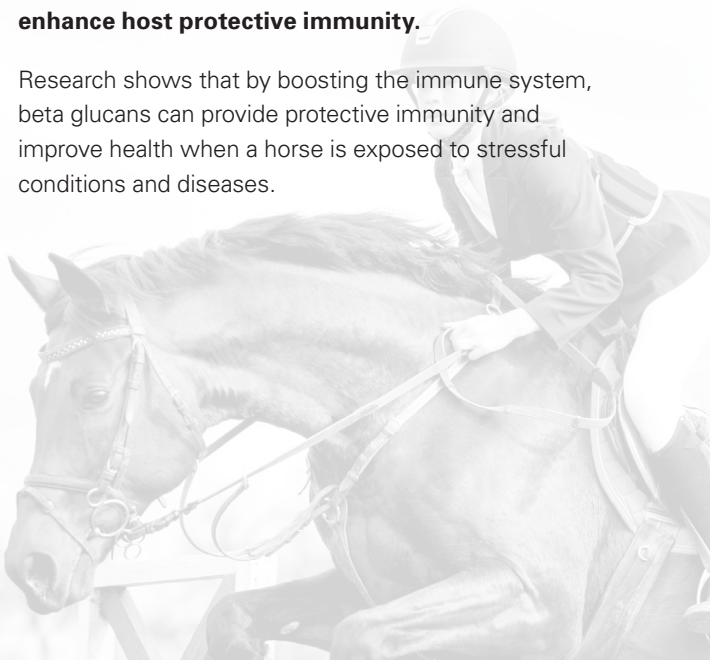
## LEVEL OF ACTIVATION



## REFERENCES

1. Vighi, G., F. Marcucci, L. Sensi, G. D. Cara, and F. Frati. 2008. Allergy and the gastrointestinal system. *Clinical & Experimental Immunology*, 153: 3-6.
2. Pengkumsri, N., B. S. Sivamaruthi, S. Sirilun, S. Peerajan, P. Kesika, K. Chaiyasut, and C. Chaiyasut. 2016. Extraction of beta-glucan from *Saccharomyces cerevisiae*: Comparison of different extraction methods and in vivo assessment of immunomodulatory effect in mice. *Food Science and Technology*, 37(1): 124-130.

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SOURCE OF BETA GLUCANS	Aleta™	Yeast and whole grains
Beta glucan concentration	>50%	5% to 25%
Bioavailability	No extraction required — highly bioavailable	Extraction required — less bioavailable

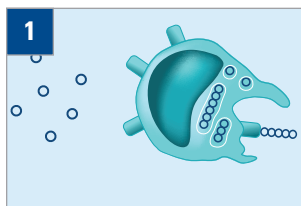
## FEATURES AND BENEFITS

- Aleta offers a **concentrated, bioavailable source of 1,3-beta glucans.**
- Natural, algae-derived beta glucans **enhance host protective immunity.**
- Aleta **helps maintain performance** through stress and disease challenges.

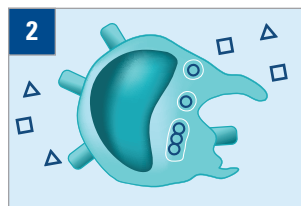
### MODE OF ACTION

At the molecular level, Aleta primes immune cells and increases their ability to fight off disease. After ingestion, the 1,3-beta glucans in Aleta reach the small intestine where they are absorbed. Immune cells recognize 1,3-beta glucans through a variety of cell surface receptors, which engulf and transport them throughout the body to secondary lymphoid sites while simultaneously releasing fragments.

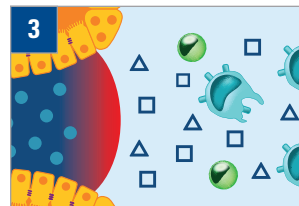
The recognition and ingestion of the 1,3-beta glucans also triggers the release of signaling molecules, which can activate other immune cells and promote their recruitment to an infected site. Activated cells then effectively target and destroy foreign cells and disease-causing organisms.



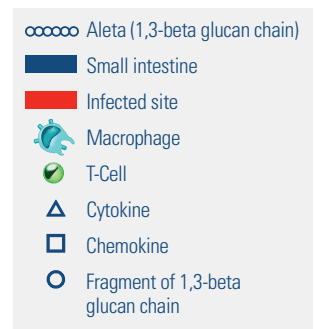
**PHASE 1:** Immune cells engulf 1,3-beta glucans, transport them throughout the body and release fragments of 1,3-beta glucans.



**PHASE 2:** Recognition and ingestion of 1,3-beta glucans trigger the release of signaling molecules.



**PHASE 3:** Signaling molecules activate other immune cells and promote their recruitment to the infected site.



## IMPROVE THE IMMUNE FUNCTION AND HEALTH OF YOUR HORSE.

Contact Kemin to learn more about Aleta today!  
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**GUT HEALTH**  
SOLUTIONS

**BUILD UP**

The Kemin Gut Health Triple Check program helps establish intestinal integrity and protection. Kemin offers products that **CLEAN UP** contaminants in feed and water prior to animal exposure, **BUILD UP** intestinal strength and immunity to reduce leaky gut and **KNOCK OUT** harmful pathogens for healthier and better performing horses. Aleta was developed for the BUILD UP category by strengthening the immune system to maximize nutrient absorption and inhibit harmful pathogens or toxins.

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