



COMPETITION
SAFE



SUPERIOR
ABSORPTION



GUT FRIENDLY



MADE IN
NEW ZEALAND
From Imported & Local
Ingredients

Superior Quality and Bioavailability, Backed by Science

- Formulated with high-quality, human-grade ingredients to ensure purity, bioavailability, and effectiveness
- Independently tested for optimal liposome size (100–200nm)
- Compliant with Clean Sport regulations, in adherence to FEI and racing guidelines
- Clean formulations – free from alcohol, soy, artificial colours, and additives
- Contains natural preservatives only
- Packaged in certified safe, BPA-free, fully lined and recyclable aluminium bottles

Equilyze Liposomal

Highlights

- **Advanced formulation:** Comprehensive blend of sodium, potassium, magnesium, calcium, and zinc for complete electrolyte support.
- **Liposomal delivery:** Enhances absorption while being gentle on sensitive digestive systems.
- **Gut-conscious support:** Includes calcium ascorbate to aid gut integrity, antioxidant protection, and stool-firming benefits.
- **Easy to administer:** Palatable liquid formula suitable for syringing or adding to feed.
- **Performance-ready:** Supports horses under heat stress, during post-exercise recovery, or experiencing digestive upsets, promoting rapid electrolyte replenishment and long-term resilience.



Functions

- Replenishes essential electrolytes lost through sweat
- Supports cellular hydration, encourages water intake and maintains fluid balance
- Aids muscle recovery, reduces cramping and supports post-exercise relaxation
- Maintains healthy nerve conduction and muscular contraction
- Promotes gut comfort and firmer stools, especially in horses with worm burdens or digestive upsets
- Provides antioxidant support for tissue healing, immune defence and recovery from stress
- Assists thermoregulation and resilience during heat stress or intense workloads

Beneficial for Horses

- In regular work, training, travel or competition, needing enhanced hydration and recovery support
- In hot, humid, or high-sweat environments, requiring additional electrolyte replacement for thermoregulation
- Needing post-exercise rehydration, muscle recovery and stamina restoration
- Prone to sporadic exertional rhabdomyolysis (tying-up) and Recurrent Exertional Rhabdomyolysis (RER)
- With loose stools, gut discomfort or those recovering from worm burdens or undergoing deworming
- Who are older, or those under long-term physical or psychological stress
- With sensitive gastrointestinal function needing a gut-friendly electrolyte solution

(For targeted RER support, see **MagEQ**. For PSSM management, see **OptiVive**.)

Storage

Store below 25°C. Refrigerate after opening and consume within 90 days.

Ingredients

Ingredients per 15ml dose:

Sodium chloride 1100 mg

Potassium chloride 360 mg

Sodium citrate 330 mg

Calcium (as calcium ascorbate) 165 mg

Glucose (as glucose, anhydrous) 110 mg

Magnesium (as magnesium chloride) 110 mg

Zinc (as zinc sulfate monohydrate) 3 mg

Other ingredients: distilled water, non-GMO sunflower lecithin, organic glycerin, citric acid, nisin, natamycin, natural flavours, monk fruit.

Directions

Administer 3ml per 100kg bodyweight daily (15ml for a 500kg horse), or as needed, directly into the horse's mouth or mixed with feed.

Available in

450ml = 30 × 15ml doses



Warnings

Formulated for equine, not human nutritional requirements.

Actions

Sodium Chloride – 1100 mg

Plain salt remains the cornerstone of equine electrolyte therapy. Sodium chloride contributes both sodium and chloride ions - essential for osmotic regulation, extracellular fluid balance and gastric health (McCutcheon & Geor, 2008). Chloride supports hydrochloric acid production in the stomach, which is vital for effective digestion and prevention of digestive disturbances, particularly in stress-prone or ulcer-sensitive horses (Getty, 2018). Sodium chloride also plays a role in stimulating thirst, improving voluntary water intake, which is critical for rehydration and thermoregulation following sweating or heat exposure (Coenen, 2011). For horses in humid or hot conditions, sodium chloride becomes indispensable for preventing dehydration-related complications and supporting ongoing performance output.

Potassium Chloride – 360 mg

Potassium is a key intracellular electrolyte vital for nerve impulse transmission, skeletal muscle contraction and smooth muscle activity in the digestive tract (Coenen, 2011). Horses lose significant potassium through sweat and depletion can quickly lead to muscle fatigue, weakness, irregular heart rhythms and “thumps” (synchronous diaphragmatic flutter) in severe cases. Potassium chloride replenishes these losses efficiently, restoring intracellular balance and maintaining resting membrane potential in muscle fibres. Adequate potassium also supports glycogen storage, which is necessary for sustained performance and post-work recovery (Harris & Geor, 2017). This is particularly important for horses undergoing long-duration or high-intensity exercise, where prolonged sweating significantly depletes potassium levels.

Sodium Citrate – 330 mg

Sodium is the primary electrolyte lost in sweat and replenishing it is essential for maintaining blood volume, cardiovascular stability and proper muscle function in working horses (McCutcheon & Geor, 2008). Sodium citrate is particularly effective, as it serves not only as a sodium source but also as a metabolic buffer, assisting in neutralising excess hydrogen ions that accumulate during intense exercise. This buffering capacity reduces the risk of exercise-induced metabolic acidosis, which is especially relevant for horses working in anaerobic states or prolonged aerobic exertion (Coenen, 2011). In addition, sodium supports water retention and voluntary drinking behaviour, encouraging better hydration post-exercise or during transport. This dual action of hydration and buffering makes it particularly valuable for horses in endurance training, competition travel or heat stress scenarios, and for those prone to sporadic exertional rhabdomyolysis (tying-up), where stable muscle cell hydration is critical (Harris & Geor, 2017).

Calcium (as calcium ascorbate) – 165 mg

This buffered form combines calcium and ascorbic acid for dual-action benefits. Calcium contributes to muscle contraction, nerve signalling, and stabilisation of gastrointestinal motility, helping to firm loose stools and improve gut function. This makes it particularly beneficial for horses recovering from worm burdens, digestive upsets or undergoing deworming (Harris & Geor, 2017). Vitamin C adds a potent antioxidant effect, mitigating oxidative stress caused by intense exercise, environmental stressors, or parasitic challenges, while also supporting collagen synthesis and tissue repair (Campos et al., 2023). These combined benefits make calcium ascorbate ideal for performance horses under heavy workloads as well as those with compromised gut health or recovering from illness or stress (Getty, 2018).

Glucose (as glucose, anhydrous) – 110 mg

Glucose is a primary energy source for muscles and the nervous system, supporting immediate energy demands during exercise and aiding post-work recovery (Hodgson & Rose, 2007). In performance horses, anhydrous glucose is rapidly absorbed, helping to replenish glycogen stores and stabilise blood glucose levels, which in turn supports nutrient uptake and electrolyte efficiency. By providing readily available fuel, glucose helps reduce fatigue, sustain endurance and complement the recovery benefits of magnesium and zinc in the formulation.

Magnesium (as magnesium chloride) – 110 mg

Magnesium plays a critical role in neuromuscular function, acting as a natural calcium antagonist at muscle cell membranes to reduce neuromuscular excitability (Nielsen & Ott, 2018). This makes it highly effective at reducing muscle cramping and post-exercise tightness, while also promoting relaxation and recovery. Horses experiencing sporadic exertional rhabdomyolysis (tying-up) benefit from magnesium's ability to stabilise muscle membrane excitability and buffer lactic acid accumulation post-work (Bello & McKenzie, 2022). Magnesium chloride's high solubility ensures rapid uptake, making it suitable for replenishment after heavy sweating, particularly in horses competing or training in hot and humid climates.

Zinc (as sulfate monohydrate) – 3 mg

Zinc is an essential trace mineral involved in over 300 enzymatic processes, including those responsible for protein synthesis, wound healing, and immune defence (Roberts, 1983). In equine athletes, zinc supports muscle repair and tissue regeneration after intense work, contributing to faster recovery times. It also plays a key role in maintaining hoof integrity, skin resilience and coat condition, all of which can deteriorate under metabolic stress or poor nutrition (Getty, 2018). Including zinc in the electrolyte profile supports not only short-term performance recovery but also the long-term resilience of performance horses.

References:

- Bello, A. M., & McKenzie, E. C. (2022). The effects of magnesium on neuromuscular performance in horses. *Equine Veterinary Journal*, 54(1), 33–40.
- Campos, M. R., Vieira, R. P., & Andrade, L. N. (2023). Improved liposomal vitamin C delivery in equine models. *Journal of Veterinary Science*, 24(1), e20.
- Coenen, M. (2011). *Electrolyte and fluid balance in exercising horses*. *Pferdeheilkunde*, 27(3), 270–277.
- Getty, J. (2018). *Feed Your Horse Like a Horse* (2nd ed.). Getty Equine Nutrition.
- Harris, P., & Geor, R. J. (2017). Nutritional strategies for exercising horses. *Veterinary Clinics of North America: Equine Practice*, 33(1), 47–65.
- McCutcheon, L. J., & Geor, R. J. (2008). Sweat losses and electrolyte supplementation in horses. *Journal of Equine Veterinary Science*, 28(3), 152–159.
- Nielsen, B. D., & Ott, E. A. (2018). Magnesium status and stress response in exercised horses. *Journal of Animal Science*, 96(3), 1205–1212.
- Roberts, M. C. (1983). B-vitamin and mineral requirements in equine performance horses. *Proceedings of the Equine Nutrition Conference*, 89–97.
- Hodgson, D. R., & Rose, R. J. (2007). *The Athletic Horse: Principles and Practice of Equine Sports Medicine* (2nd ed.). Elsevier.