

# Advanced, Patented Equine Plasma Technology for Inflammation & Osteoarthritis

Studies show 60% of all equine lameness are related to Osteoarthritis (OA), and can affect any horse at any age. Among equine joint diseases with the greatest impact and clinical relevance in orthopedics, OA remains the most devastating. The condition is often associated with poor performance, early retirement, and a significant financial burden for owners of affected athletes.

Astaria Global has made significant advances to our proprietary Alpha-2 Macroglobulin ( $\alpha 2M$ ) plasma technologies to introduce our new line of Alpha-2 Regenerative Therapies for inflammation/degeneration of joints in horses.



## INTRODUCING ALPHA2EQ AVAILABLE IN ALL MARKETS Q1 2020

Alpha2EQ is an exciting advancement in orthopedic science, resulting from years of research and FDA approval on the human side. For most athletes suffering with pain, their joint space contains more destructive enzymes than their body can handle, resulting in inflammation and degradation of the cartilage - and eventually the bone. Located in the blood is the untapped Alpha-2 Macroglobulin ( $\alpha 2M$ ) molecule. Astaria Global's research team discovered a way to prevent the breakdown of cartilage while also protecting the joint. While  $\alpha 2M$  is naturally occurring, it is unable to enter the joint space in high enough quantities due to its large size, complex structure, and the avascular design of the joint.

As a result, it is necessary to inject additional concentrated  $\alpha 2M$  into the affected joint to help restore the natural balance - resulting in remarkable, regenerative results.

Visit [www.alpha2eq.com](http://www.alpha2eq.com) for additional important product information.

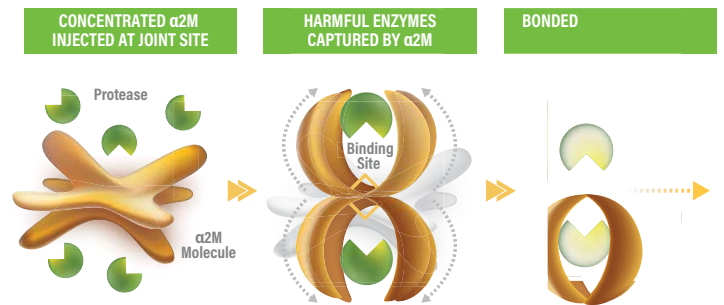
# ALPHA2EQ™

## Faster, Longer Lasting Pain Relief

- ✓ Simple, minimally-invasive process that takes less than one hour
- ✓ Drug-free, patented and proprietary therapy that means no withdrawal period for competition
- ✓ Proven success decreasing inflammation, relieving pain and modulating cartilage degeneration
- ✓ Higher concentration of Alpha-2 Macroglobulin ( $\alpha 2M$ ) serum from each procedure, allowing attending veterinarians to inject multiple locations in the same treatment
- ✓ Alpha2EQ concentrated serum may be stored frozen for future treatments
- ✓ No risk of side effects and no doping issues with the any of the  $\alpha 2M$  regenerative therapies

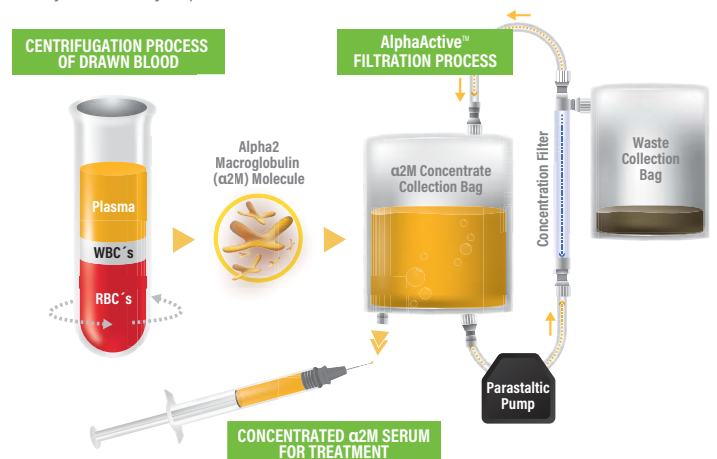
## How does Alpha2EQ work?

Alpha-2 Macroglobulin is a powerful inhibitor of cartilage catabolic factors and slows the progression of OA by preventing cartilage breakdown and loss. Alpha-2 Macroglobulin has two binding sites, which capture proteases like a Venus fly-trap. Once captured, the bound  $\alpha 2M$  and proteases are eliminated from the joint space through the body's natural processes.



## How does the Alpha2EQ process the concentrated Alpha-2 Macroglobulin?

A standard blood draw is taken from the horse then processed through the patented Alpha-2 Regenerative Therapies and proprietary filtration method - achieving up to six times more  $\alpha 2M$  concentrate than other analogous therapies. Once the process is complete, the  $\alpha 2M$ -rich injectate, derived from the horse's own blood, is drawn into syringes for administering into the injury site. An injection of concentrated  $\alpha 2M$  serum then binds to the inflammation-causing proteases that are known to cause inflammation. Within minutes, this process attacks the destructive enzymes and turns them into metabolic waste for the body to naturally expel.



ASTARIA™