



# Osteokine®

## Accelerate healing of tissue injuries.

Osteokine's enclosed, sterile, dual-bag system enables simple aseptic processing of whole blood to produce autologous platelet-rich plasma (PRP).

### What is Osteokine?

Osteokine is a device used to accelerate the tissue healing process in horses by producing platelet-rich plasma (PRP).

### How does it work?

Whole blood is taken from the horse and placed into the red-capped Osteokine bag. After processing in a special centrifuge, a pellet of PRP is generated that can be re-suspended to treat the horse from which it was taken.

### What is PRP?

PRP is a preparation of autologous concentrated platelets (thrombocytes) that offers a rich source of useful growth factors. PRP produced by Osteokine contains therapeutically significant concentrations of platelets.

### What can it be used for?

PRP has been shown to accelerate healing in injuries involving fibrous tissues such as tendons, ligaments, and skin. It has also been used in healing bones.

### Why the Osteokine System?

- Concentrated platelets are a rich source of useful growth factors
- Osteokine is for autologous use, minimizing the risk of disease transmission
- Platelets are fresh and still functional, resulting in an optimum growth factor output
- Total processing time to get PRP is about 30 minutes

### Get more information about Osteokine

For technical support, please call 866-933-2472 or e-mail [support@dechra.com](mailto:support@dechra.com). For additional information about Osteokine or to request copies of our technical materials, visit [www.Dechra-US.com](http://www.Dechra-US.com).



### Benefits of Osteokine

- Accelerated healing of tissues such as skin, bones, tendons and ligaments
- Produces growth factors (biological signaling agents)
- Accelerated vascularization
- Reduced time for new tissue maturation
- Improved bone density
- Reduced perioperative traumatic pain



## Growth factors contained in PRP

- PDGF (Platelet Derived Growth Factor)
- FGF (Fibroblast Growth Factor)
- TGF- $\beta$  (Transforming Growth Factor- $\beta$ )
- TGF- $\alpha$  (Transforming Growth Factor- $\alpha$ )
- EGF (Epithelial Growth Factor)

PRP provides strictly localized production of natural, autologous growth factors in physiological concentrations and combinations at the site of application. This stimulates tissue regeneration and recruitment of stem cells at the site of the injury.

## Processing with Osteokine



The empty Osteokine bag



Whole blood is injected into the first compartment



The first compartment is full and must now be centrifuged



After the first spin



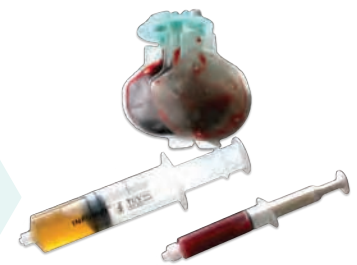
The supernatant is now transferred into the second compartment via the sterile lock, and the bag is spun again



After the second centrifugation, the bag now contains platelet-poor plasma (PPP) as a supernatant and a pellet of platelet-rich plasma (PRP)



The platelet-poor plasma is decanted off, leaving the PRP pellet, which can now be re-suspended and extracted for use



Syringes containing PPP and PRP

Contact your veterinary distributor to order Osteokine today!

