



Platelet therapy for tendon repair

and wound healing

in horses

A PRODUCT OF :



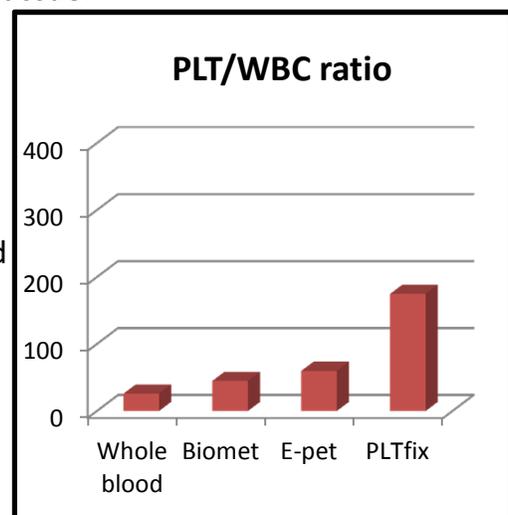
The Product

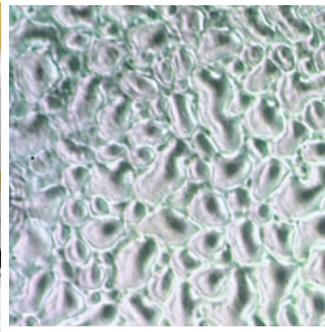
PLTfix contains allogeneic equine purified platelet enriched plasma (PRP). **PLTfix** is an easy to use therapeutical product for tendon repair, acceleration of wound healing, and as adjuvant therapy with invasive surgery (e.g. bone implants) to improve the healing process. **PLTfix** offers a safe, rapid and effective solution for recent tendon and ligament injuries and those injuries that have not healed using traditional rest and controlled exercise (after about 30 days). Please notice that **PLTfix** is merely a therapeutic treatment with limited short-term effects (up to 8-10 months) and not a long-term regenerative product. In case of severe tendinitis and ligament injuries and for degenerative joint disease, we do recommend the use of stem cell therapy.

Mode of action

PLTfix is a platelet-concentrated plasma solution that contains a supra-physiologic concentration of major equine bioactive growth factors such as TGF- β , PDGF, VEGF and in smaller amounts IGF-1, EGF and TGF- α . When **PLTfix** is injected into the lesion, the damaged tissue stimulates release of these growth factors from the platelet's granules. These growth factors access and augment the natural healing process by accelerating wound healing, decreasing the inflammatory reaction, neo-angiogenesis, recruiting stem and progenitor cells, and stimulating proliferation of resident cells (e.g. tenocytes). **PLTfix** also promotes the removal of inactive, dying or necrotic tissue.

PLTfix is obtained from whole blood by density gradient centrifugation and concentration. Platelet (PLT) concentration is in our product 5-fold higher (> 3-fold concentrations provide effective treatment, excessive concentration may be detrimental). White blood cell (WBC) count is 2,5-fold lower compared to whole blood. WBCs might counteract effects on tenocyte and osteoblast proliferation. **PLTfix**, as autologous conditioned plasma (ACP), is optimized for in vivo connective tissue healing.





How to use

PLT^{fix} is supplied in 1.5 ml volumes for a one-time injection under ultrasound guidance. The procedure is carried out in the standing horse under sedation.

In most cases only one PRP injection is needed for complete healing. Treatment can be repeated in 6-week intervals.

PLT^{fix} is supplied in a box with 10 aliquots. It can be stored at -20°C for six months.



Results

Implantation of **PLT^{fix}** into core or diffuse tendon lesions associated with lameness result in a significant improvement in the transverse and longitudinal ultrasound appearance of the injured area. Decreased inflammation and pain, increased mobility and growth factors stimulate healing. Initial results indicate that PRP treatment of equine tendon and ligament injury is a tremendous improvement over conventional techniques.

Rehabilitation

In case of tendon injuries, the horse is confined for two weeks, then returns to a controlled exercise protocol (generally at least 3 months) based on the severity of injury and level of lameness. Controlled exercise is the critical part to maximize the strength and healing of your horse's injured tendon. Re-examination with ultrasonography is conducted, before exercise levels are increased: every 30 days over the first two months, then every 60 to 90 days during the remaining healing period.

***PLT^{fix} • improves healing and regenerates damaged tissue in horses.
PLT^{fix} • has been developed by Fat-Stem Laboratories and is marketed
through its partners and is used in different EU countries.***