

# Tropocells PRP

Platelets require an anabolic cellular environment for the optimal regenerative effect. Tropocells' patented gel barrier creates a uniquely anabolic environment free of the red blood cell contamination that inhibits cell function and every step of the healing process. Harmful neutrophils are minimized to 4.3% of the total WBC count. The result is the ideal PRP formulation.

Neutrophils influence platelets to release pro-inflammatory growth factors instead of anti-inflammatory growth factors. Their presence diminishes early healing potential of the original platelets by promoting the inflammation and breakdown of tissue that directly counter the desired effects of PRP.

RBCs and neutrophils have a shorter lifespan outside of the bloodstream and monocytes and lymphocytes take over after 5 days anyway, but by then a lot of damage is done and healing potential lost when RBCs and neutrophils remain.

PRP is used for repair and regeneration - after the acute phase. RBCs cause an initial growth factor spike following injury, but will inhibit healing. Inflammation is part of the entire process, but then repair and regeneration take over. This is where RBCs and neutrophils are harmful. Tropocells PRP separates out all RBCs and most neutrophils for the best outcome possible.

Tropocells PRP provides the benefits of both leukocyte-rich and leukocyte-poor PRP for the ideal treatment of all tissue types with one system - RBCs and neutrophils are toxic to cartilage while monocytes and lymphocytes stimulate the growth factors responsible for tendon and bone proliferation. Deliver a highly purified platelet concentration to optimize the natural healing process.

The Tropocells anabolic (monocytes and lymphocytes):catabolic (red blood cells and neutrophils) ratio is 22:1 ranking it #1 in regenerative potential.

Tropocells is the only system with a favorable anabolic:catabolic ratio.

Requires only 11ml of blood and 10 minutes of centrifugation.

1.6 billion platelets can be customized to up to an 8x concentration.

Injection site pain and flare-ups are minimized for greater patient comfort.

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