

Platelet Rich Plasma Formulation

Anabolic to Catabolic Cell Ratio:

The sum of anabolic stimuli, namely monocytes and lymphocytes, is compared to the sum of catabolic stimuli, namely RBCs and Granulocytes

Why is the Anabolic to Catabolic Cell Ratio Important?

For healing to occur, platelets must release anabolic growth factors. For this to occur, an environment where platelets will encounter anabolic cells before catabolic cells is necessary. Each platelet that encounters a catabolic stimulus will be wasted on a pro-inflammatory signal that is counterproductive to our goal of healing and anabolism. The effect of this platelet that encounters a catabolic stimuli may directly counteract the platelets that received an anabolic stimulus, dulling the net effect. The key is to remove RBCs and neutrophils from the PRP while retaining lymphocytes and monocytes within the microenvironment.

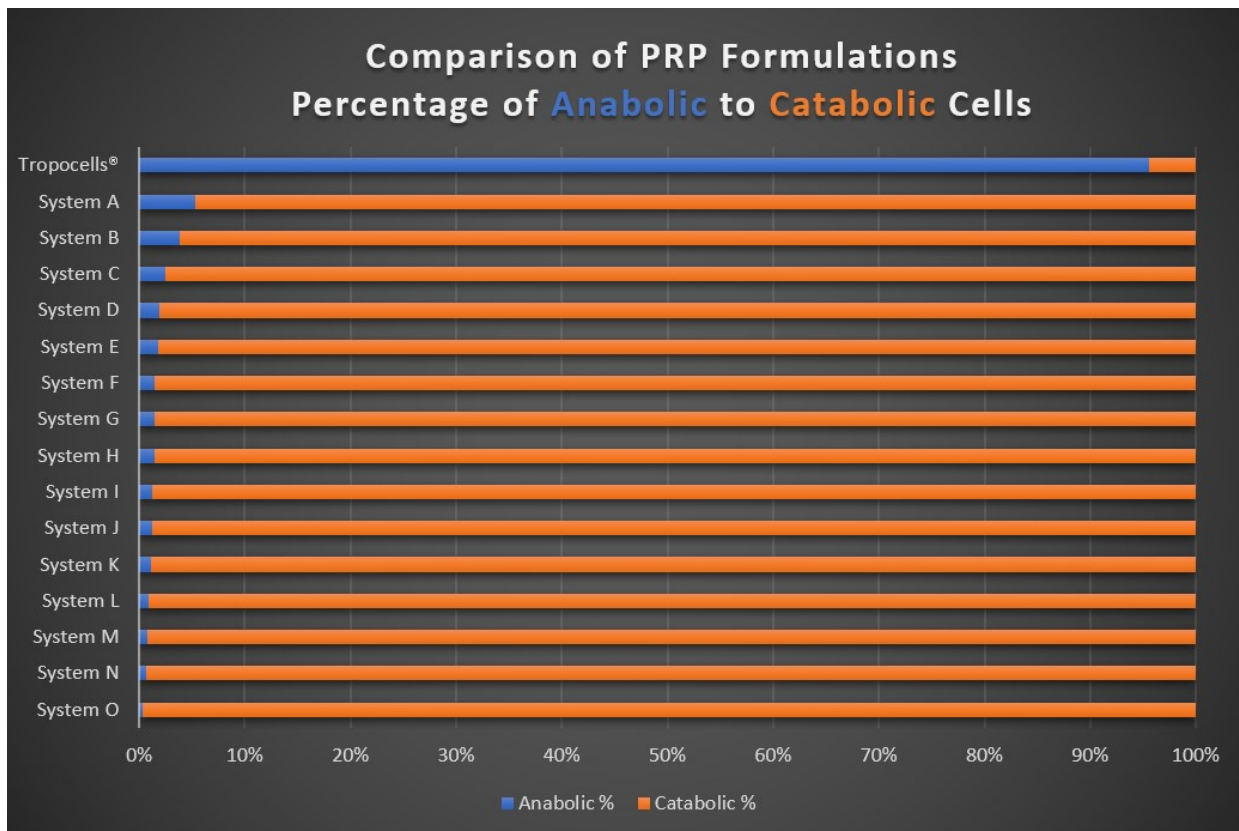


Chart 1 - Anabolic to Catabolic Percentages by PRP System (see back for chart data references)

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