

ART PRP™

Autologous
Point of Care
Platelet Rich Plasma





ART PRP™

The ART PRP system processes autologous blood effectively and efficiently at point-of-care. The system recovers the greatest percentage of nucleated and progenitor cells by allowing selection of the cell concentrate from user-defined portions of the centrifuged stack.



ART PRP™ PLUS

The ART PRP Plus features integrated fibers for plasma concentration with minimal sterile breaks to create a fluid rich containing proteins such as VEGF, PDG-F, TGF-Beta, FGF, Alpha-2 Macroglobulin, Interleukin-1 receptor antagonist protein, and Fibrinogen^{1, 2, 3}.

FEATURES

- Functionally closed system to minimize sterile breaks
- Variable processing volume supports a variety of applications
- Thumbwheel allows for selective deconstruction of fluid stack for personalized fluid products.
- Adjustable flow valve diverts fluid without additional sterile breaks.
- ART PRP Plus features integrated fibers for plasma concentrate

BENEFITS

- Efficient concentration yields ultra-low hematocrit
- Adjustable white blood cell concentration for leukocyte-depleted product
- Unmatched concentration of molecules, including fibrinogen, myoglobin, and cytokines of similar molecular weights⁴.
- Customized fluid fractions for tailored final product
- Eliminates turbulence by keeping buffy coat in the collection zone
- Functionally closed to minimize sterile breaks
- Consistently achieves high yields of platelets and mononuclear cells

¹Murphy et al. Adult and umbilical cord blood-derived platelet-rich plasma for mesenchymal stem cell proliferation, chemotaxis, and cryo-preservation. *Biomaterials* 2012; 33(21):5308-5316.

²Wang et al. Identification of alpha-2-macroglobulin as a master inhibitor of cartilage-degrading factors that attenuates the progression of posttraumatic osteoarthritis. *Arthritis & Rheumatology* 2014;66(7):1843-1853

³Cassano et al. Bone marrow concentrate and platelet-rich plasma differ in cell distribution and interleukin 1 receptor antagonist protein concentration. *Knee Surg Sports Traumatol Arthrosc*, 1 Feb 2016.

⁴Data on File. Celling Biosciences, 2016.

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93 Red River, Austin, Texas 78701
T: 512.206.0770 | F: 866.415.1809
www.cellingbiosciences.com