DR. PRP'S UNIQUE DIFFERENTIATED PRP FEATURES

Safety

We have built safety and reliability into the Dr.PRP device by exclusively using biocompatible materials as well as a through gamma-ray sterilization system according to the ISO11137.

One Step-Simplicity

A unique system capable of separation, concentration, and extraction is applied with one smart kit, and the air pollution is minimized with a double safety cap feature.

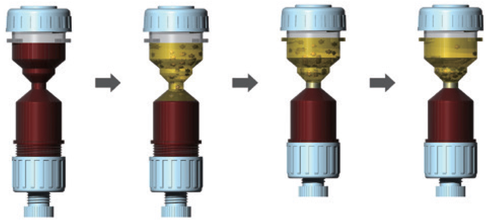
Speed & Convenience

The Buffy coat layer can be conveniently and easily identified by any user who can separate precisely of high concentrated PRP.

Compatibility

Several swing-out bucket type centrifuges may be compatible with the Dr.PRP

SEPARATION PROCESS



Whole Blood17~18cc
+ACD-A 2~3cc / total 20cc

1st Spin

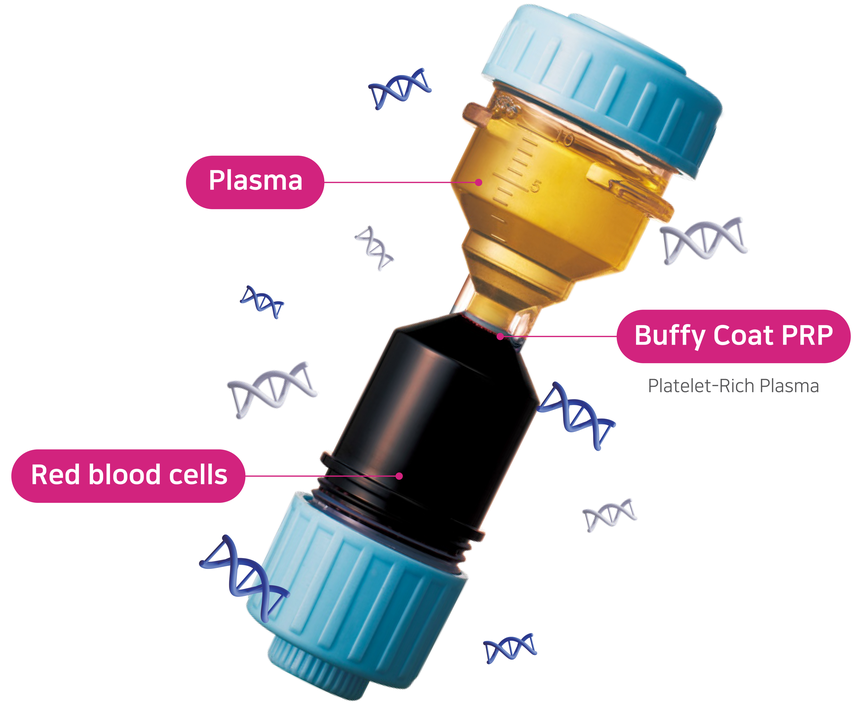
2nd Spin

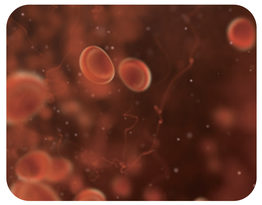
1st Centrifugation Separation Spin

- Plasma and buffy coat separation.
- Plasma : yellowish layer, small amount of platelets
- Buffy coat : leukocytes and platelets
- Red Cell fraction : erythrocytes

2st Centrifugation Concentration Spin

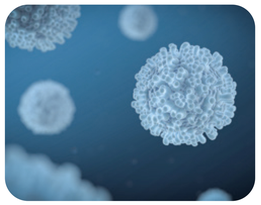
- Extraction of lower plasma fraction and platelets.





Plasma
(liquid part of the blood)

- Plasma 55%
- Transport, Thermoregulation



Buffy Coat PRP
(Platelet-Rich Plasma)

- Leukocyte 1%
- hemostatic function
- Immune function against foreign substances

Red blood cells
(a half-shaped cell)

- RBC 45%
- Provides oxygen to the body and removes carbon dioxide