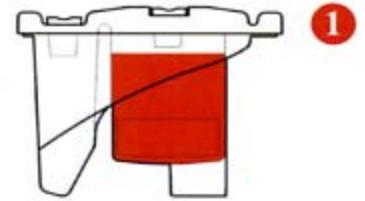


SmartPreP® 2 THEORY OF OPERATION

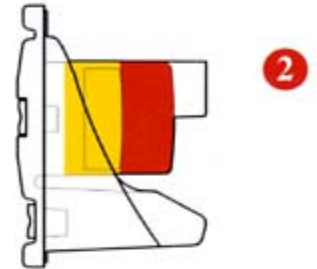
STEP 1

The filled disposable(s) is placed into the centrifuge rotor bucket in the vertical position. A counter balance is placed in the opposing rotor bucket unless a second processing disposable is required.



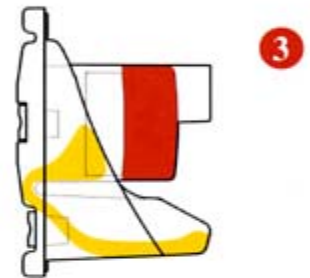
STEP 2

After the lid is closed and the start button is pressed, the centrifuge begins to accelerate. The floating shelf self-calibrates itself based on the patient's blood characteristics, and rises to just below the buffy coat/red blood cell interface to automatically optimize platelet recovery during the initial fractionation step.



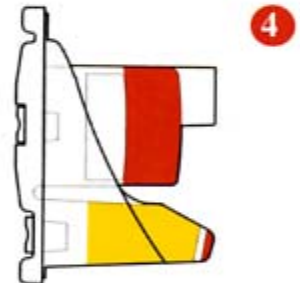
STEP 3

Following the separation of plasma from the red blood cells, the centrifuge slows, allowing the platelets, plasma, and white blood cells to automatically decant into the plasma chamber.



STEP 4

When the plasma decant is complete, the centrifuge automatically accelerates to form a pellet of platelet concentrate in the bottom of the plasma chamber.



STEP 5

The centrifuge stops and the buckets return to the vertical position. The blood chamber of the process disposable contains the red blood cells. The plasma chamber contains the platelet concentrate (a button-like precipitate) and platelet poor plasma (supernatant). The complete process is entirely automatic and completed in approximately 14 minutes.



Approximately 2/3 of the platelet poor plasma (PPP) is removed. The platelet concentrate is then resuspended in the remaining PPP, thereby creating autologous platelet concentrate enriched with growth factors (APC⁺™).

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The SmartPreP® Platelet Concentration System is manufactured by Harvest Technologies, Plymouth, MA and is distributed in the US and Canada by Terumo Cardiovascular Systems Corporation, Ann Arbor, MI.



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