

Centrifuges

Blood product preparation whether for blood analysis or to prepare an injectate usually involves a centrifuge. These are fairly simple machines with a rotor which spins test tubes rapidly around a central axis.

A centrifuge cannot change the quality of the PRP that is being prepared. Choose which PRP you wish to use first, don't look for a centrifuge before deciding on which PRP system. All PRP suppliers will provide a centrifuge as well.

The older type of buffy coat blood preparation prefers a swing or horizontal centrifuge but for Cellenis®/Tropocells® with its unique gel technology formulation, a fixed angle centrifuge is used with no detriment to test tube contents.

The spin speed of a centrifuge is given in revolutions per minute (RPM).

Importantly, centrifugation makes use of the force exerted on rotating bodies to separate the test tube contents. This force is called **Relative Centrifugal Force (RCF)** and is determined by the spin speed of the centrifuge.

1. A good, precise protocol for centrifugation of PRP instructs you to use the RCF setting rather than RPM because the internal rotor that spins around might differ in size between different centrifuges.
2. A small centrifuge with a short rotor arm will need to spin much faster than a larger centrifuge to achieve the same force acting on the test tube contents.

The centrifuge you use should show a RCF reading not only RPM for this reason.



Preparation of Cellenis®/Tropocells® requires a RCF of 1500g for ten minutes



Compact and light, Medira's fixed angle H-Flex6 centrifuge is designed for the independent clinician preparing Platelet Rich Plasma for clinical use.

This centrifuge shows the Relative Centrifugal Force (RCF) measurement of the force exerted on the contents of the blood tubes.

Balance and breaking forces are shown on the scroll through digital screen.

The H-Flex6 has a two year warranty with a lifetime warranty on the rotor. Designed and built in the USA.

FEATURES	SAFETY
<p>Electronic Timer with Display</p> <p>Programmable Force with digital readout displaying Time and RCF settings. A button push shows the RPM</p> <p>Capacity: 6 x blood draw tubes with <i>adapters for 11ml and 22ml capacity</i></p> <p>Weight: 5.4kg</p> <p>Dimensions: (WxDxH): 30cm x 36cm x 23cm</p> <p>Exceptionally Quiet Operation with Low Vibration</p>	<p>Automatic and Positive Lid Lock: Centrifuge will not run with the lid open and the lid cannot be opened while samples are spinning</p> <p>Clear Shatter Proof Lid: Allows for safe sample observation</p> <p>CE Certified to EU Regulatory Standards</p> <p>AC Motor: Smooth operation with no routine maintenance needed</p>

Please note: Medira is not a centrifuge company. Our centrifuges are designed for Tropocells® and Cellenis® blood preparation and are not sold as stand alone equipment.