

RegenKit® THT

Autologous Platelet Rich Plasma (A-PRP)

Frequently Asked Questions

Q: What is the indication for use of the RegenKit® THT system?

The RegenKit THT is designed to be used for the safe and rapid preparation of autologous platelet-rich plasma (A-PRP) from a small sample of blood at the patient's point of care. The A-PRP can be mixed with autograft and/or allograft bone prior to application to an orthopaedic surgical site. The RegenKit THT is for single use only.



Figure 1



Figure 2



Figure 3

Q: What are key features of the RegenKit THT system?

The key features of the RegenKit THT system include simplicity, low blood volume draw, maximum platelet recovery, consistent isolation of platelet concentrate and plasma while maintaining leukocytes at physiological levels and aiding in the depletion of red blood cells.¹

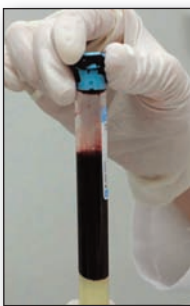


Figure 4



Figure 5



Figure 6



Figure 7

Q: What are the components in the RegenKit THT single use disposable kit?

The RegenKit THT consists of the following: one Safety-Lok™ blood collection set, one Vacutainer® holder, one Regen™ THT tube, one 18 G red needle, one 27 G grey needle, one 5-ml Luer Lok™ syringe, and one Vacutainer blood transfer device.



Figure 8

Q: What are the 4-simple steps to the RegenKit THT system?

Simplicity with the RegenKit THT system can be achieved with a simple four step process. These steps include collecting whole blood, loading and balancing of the centrifuge, spinning the Regen THT™ tube(s), and platelet preparation.



Figure 9



Figure 10



Figure 11



Figure 12

Q: What is the recommended blood volume draw for the RegenKit THT?

The recommended blood volume is 8cc of venous blood.



Figure 13

Q: What are the contents in the clear Regen THT tube?

The thixotropic gel at the bottom allows for the separation of the blood components. The clear liquid on top is an anticoagulant designed to prevent blood clotting.

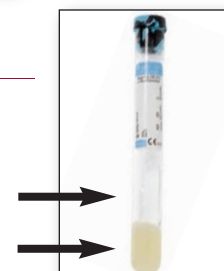


Figure 14

Q: What is the recommended centrifugation speed and time settings for the Stryker Universal Centrifuge?

When using the RegenLab / Stryker centrifuge, the rotational speed corresponding to 1,500 RCF is 3,000 RPM and the setting should be set at “34”.
WARNING: Excessive centrifuge speed over 2200 RCF may cause tube breakage, exposure to blood, and possible injury.



Figure 15



Figure 16

Q: What is the purpose of the counterbalancing tubes?

The counterbalancing tubes are needed when using an uneven number of Regen THT tubes. This will minimize the possibility of tube breakage.



Figure 17

Q: What is the purpose of inverting the filled Regen THT tubes before and after centrifugation?

The Regen THT tube is inverted gently 4-5 times before centrifugation to mix the anticoagulant with the patient's blood. In addition, after centrifugation the sealed Regen THT tube is inverted gently 4-5 times to resuspend the platelets and leukocytes within the plasma to produce the A-PRP.

Before Centrifugation



Figure 18



Figure 19

After Centrifugation



Figure 20



Figure 21

Q: What is the finished PRP consistency made of?

The A-PRP prepared using the RegenKit THT is an autologous platelet-rich plasma preparation with high platelet recovery and viability, a physiological level of leukocytes, and the entire plasma component of blood, which is rich in growth factors, such as IGF-1, and proteins, such as fibrinogen, which have been found to be critical in the healing process.

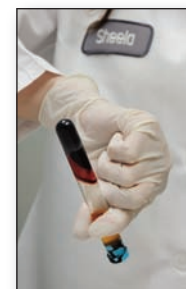


Figure 22



Figure 23

Q: What are the different layers after centrifugation?

The bottom portion is separated out red blood cells. The middle layer is the thixotropic separating gel. The top layer consists of liquid plasma with platelets and leukocytes resting on the gel.



Plasma

Platelets and Leukocytes

Red Blood Cells

Figure 24

Joint Replacements

Trauma, Extremities & Deformities

Craniomaxillofacial

Spine

Biologics

Surgical Products

Neuro & ENT

Interventional Spine

Navigation

Endoscopy

Communications

Imaging

Patient Care & Handling Equipment

EMS Equipment

PART NUMBER	DESCRIPTION
8495-9-001	RegenKit THT1
8495-9-010	Stryker Universal Centrifuge
8495-9-998	Balancing Tube 3-Pack

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