

Thrombinator SYSTEM



*Thrombinator™ System for Use
With the Angel® cPRP System*

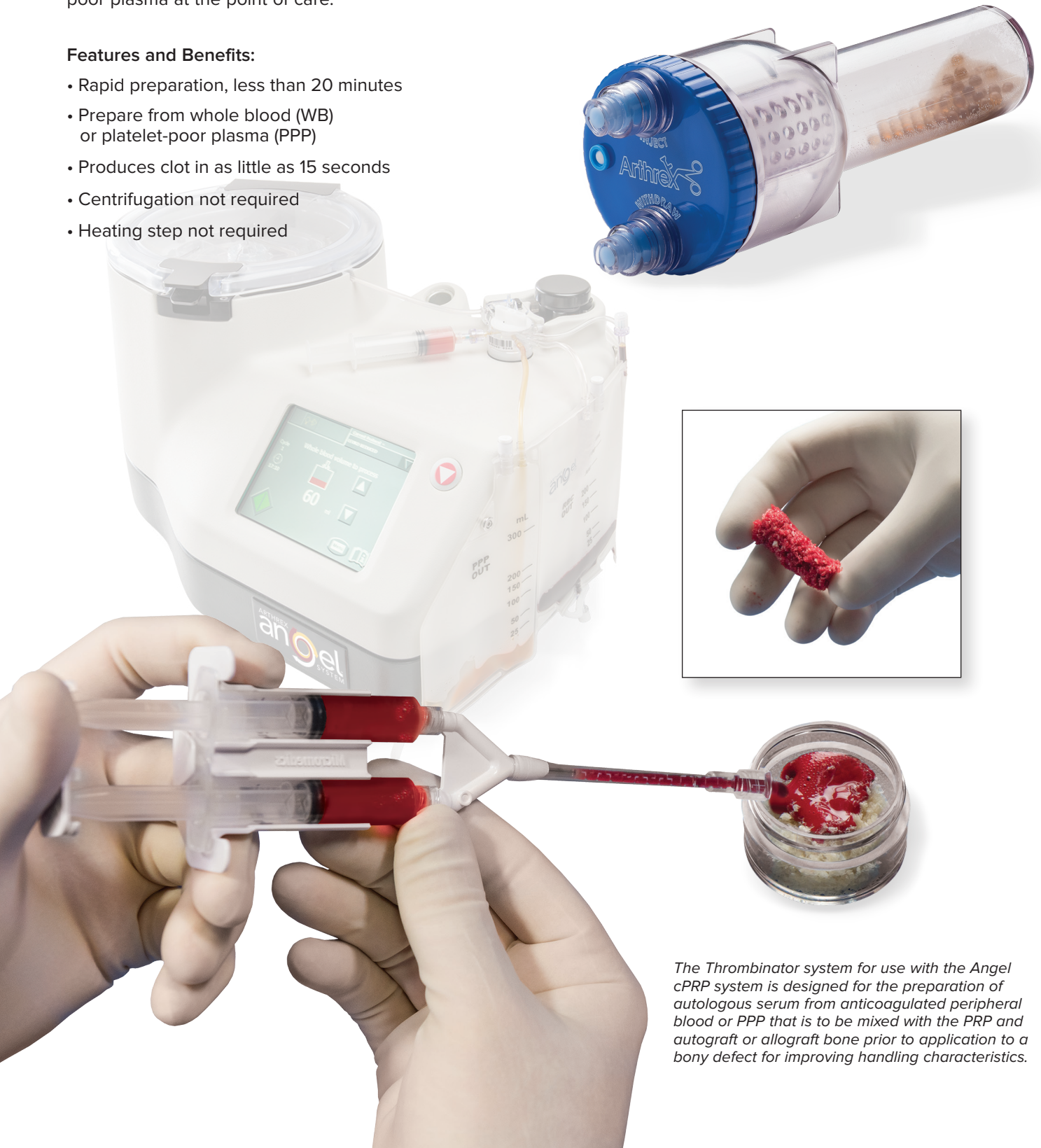
Arthrex® 

Thrombinator™ System for Use With the Angel® cPRP System

The Thrombinator system for use with the Angel Concentrated Platelet-Rich Plasma (cPRP) System is designed to produce an autologous activation serum at the point of care. The serum produced by the Thrombinator system can be used to improve the handling of bone grafts hydrated with cPRP. Autologous activation serum improves handling by activating platelets to produce a gel that serves as a binding agent for bone graft material. The Thrombinator process uses the principles of the clotting cascade to generate an activation serum without the use of harsh chemical reagents such as ethanol. The system's design eliminates the need for lengthy incubation times and heating requirements. Autologous activation serum can be produced in less than 20 minutes from whole blood or platelet-poor plasma at the point of care.

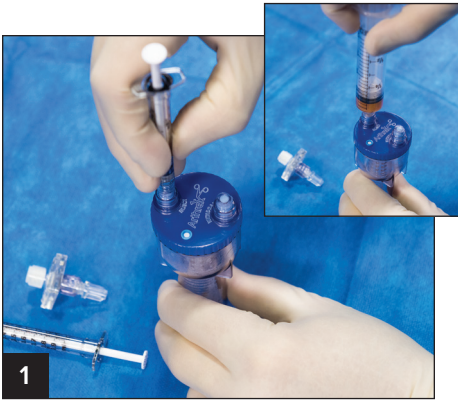
Features and Benefits:

- Rapid preparation, less than 20 minutes
- Prepare from whole blood (WB) or platelet-poor plasma (PPP)
- Produces clot in as little as 15 seconds
- Centrifugation not required
- Heating step not required



The Thrombinator system for use with the Angel cPRP system is designed for the preparation of autologous serum from anticoagulated peripheral blood or PPP that is to be mixed with the PRP and autograft or allograft bone prior to application to a bony defect for improving handling characteristics.

Directions for Use



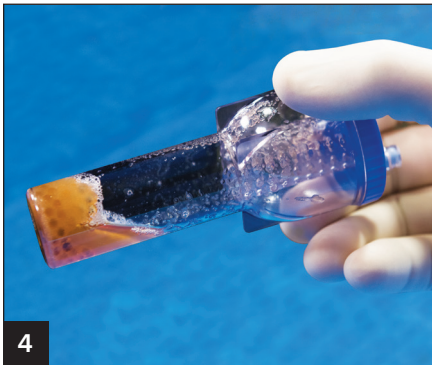
1
Add 0.1 mL of CaCl_2 + 4 mL WB or PPP to the Thrombinator device via the port labeled "Inject."



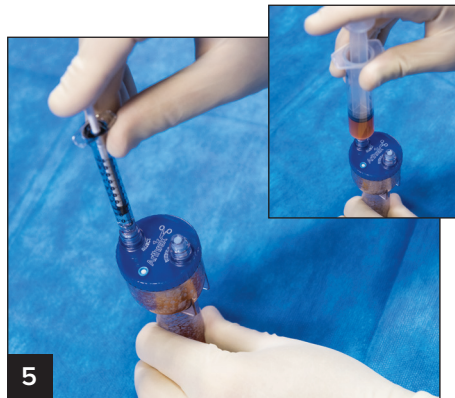
2
Mix for 5 seconds.



3
Place flat and wait a minimum of 10 to 15 minutes.



4
Shake device to break up clot.



5
Add 0.2 mL of CaCl_2 + 8 mL WB or PPP via the port labeled "Inject."



6
Place filter on the "Withdraw" port and shake for 5 seconds.



7
Place flat and wait 1 minute.



8
Shake device to break clot.



9
Invert and withdraw from port on filter.



10
Autologous serum is now ready for use.

Product and Ordering Information

Thrombinator™ System for Use With the Angel® cPRP System	ABS-10080
Angel cPRP and Bone Marrow Processing System Centrifuge	ABS-10060

Accessories

Fenestrated Delivery Needle	ABS-20000
Tuohy Delivery Needle	ABS-21000
Cannula Bending Tool	AR-6650
10 cc Applicator Assembly, 1:1 ratio	SA-3310
16 ga x 10 cm (4 in)	SA-3600
20 ga x 5 cm (2 in)	SA-3615
20 ga x 10 cm (4 in)	SA-3618
20 ga x 18 cm (7 in)	SA-3619
20 ga x 26 cm (10.25 in)	SA-3620
Dual Cannula Semiflexible Endoscopic, 32 cm	SA-3650
Dual Spray Tip	SA-3660
Endoscopic Applicator With Mixing Tip, 30 cm, 1:1 ratio	SA-3662
Blending Connector With Single Flexible Cannula	SA-3673
Blending Connector With Single Spray	SA-3674
Mixing Applicator Low Viscosity With Spray Tip	SA-3675
Blending Connector With Mixer	SA-3678

To order, please call 1-877-255-6727. Contact your local Arthrex Representative for additional information.



This description of technique is provided as an educational tool and clinical aid to assist properly licensed medical professionals in the usage of specific Arthrex products. As part of this professional usage, the medical professional must use their professional judgment in making any final determinations in product usage and technique. In doing so, the medical professional should rely on their own training and experience and should conduct a thorough review of pertinent medical literature and the product's Directions For Use. Postoperative management is patient specific and dependent on the treating professional's assessment. Individual results will vary and not all patients will experience the same postoperative activity level or outcomes.