

# CERVOS KeyPRP Platelet Concentrate System

## Quick Step Guide: Blood Draw and Processing Steps CER-PRP-DOUBLE & CER-PRP-TRIPLE Kits

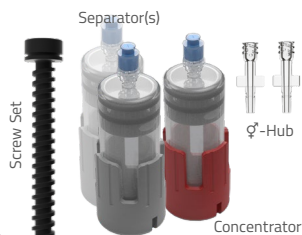


### 1 Additional Materials Required

- 2x 50ml Syringe (Blood Collection)
- 1x 30ml Syringe (Plasma Collection)
- 1x 10ml Syringe (PRP Resuspension)

Phlebotomy Materials:  
Butterfly (19G), Tourniquet, Bandage

Anticoagulant (AC) i.e., ACD-A Vial or Citrate Solution (i.e. CitraFlow™ 5ml Syringe)



### 2 Priming Instructions

- Inject 5ml AC to Separator/s (Gray), Flush to Prime Kit
- Extract AC from Separator with 50ml Blood Collection Syringe
- Inject AC to Concentrator (Red), Flush to Prime Kit
- Extract AC back into 50ml Blood Collection Syringe (~3ml)



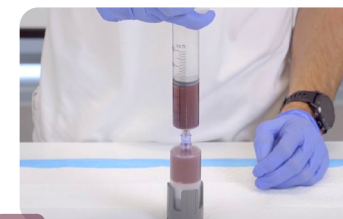
### 3 Blood Draw

Use 50ml Blood Collection Syringe incl. remaining AC to draw blood:

DOUBLE Kit: fill to ~40-42ml mark

TRIPLE Kit: fill both syringes to ~40-42ml mark (total draw volume: ~80-84ml). Use red clamp to secure IV during syringe changeover

Purge air from Syringe(s)



### 4 Load Process Separator (Gray)

Attach Blood Draw Syringe to Separator

Load ~40ml blood/AC into Separator\*

TRIPLE Kit: repeat with second Separator

\* Excess blood can be used for baseline validation  
Note: Remove thumb from blood draw syringe to allow pressure to equalize before detaching from separator.



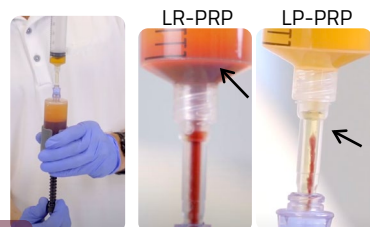
### 5 Load Centrifuge

Fill Counterweight with water/saline - ensure same weight as Separator\*

Load Counterweight & Separator into opposing centrifuge rotor buckets

Process **Cycle 1: 2300g / 2 min ; No Brake (!)**

\* TRIPLE Kit: two separators of equal volume may offset one another in centrifuge. No Counterweight required



### 6 Decant Plasma

Remove Separator from centrifuge

Attach ♀-Hub and 30ml Plasma Collection Syringe to Separator

Use Screw Set to slowly decant Plasma until desired cellular composition is reached\*

\*LR-PRP: Decant plasma until RBC layer reaches 1ml mark of decant syringe

\*LP-PRP: Decant plasma until RBC "flash" in ♀-Hub



### 7 Load Process Concentrator (Red)

Purge air from Syringe

Attach Plasma Collection Syringe to Concentrator and load Cloudy Plasma\*

TRIPLE Kit: Repeat Step 6 & 7 with second Separator - combine plasma from both separators into Concentrator

Note: Remove thumb from blood draw syringe to allow pressure to equalize before detaching from concentrator.



### 8 Load Centrifuge

Fill Counterweight with water/saline - ensure same weight as Concentrator.

Load Counterweight & Concentrator into opposing centrifuge rotor buckets

Process **Cycle 2: 2300g / 5min ; No Brake (!)**



### 9 Decant Platelet-Rich Plasma

Attach 30ml Plasma Collection Syringe to Concentrator

Decant PPP until top of the collection surface reaches desired PRP volume mark on the Concentrator

Note: Top of collection surface is an opaque disk above black gasket



### 10 Resuspend Platelets

Attach 10ml PRP Syringe to Concentrator

Extract Concentrator volume

Flush back-and-forth 4-6 times within Concentrator to ensure sufficient resuspension

Invert Concentrator with 10ml Syringe and withdraw PRP

**PRP is Ready for Use**