



USER MANUAL

PRODUCT BIC-PRP KIT

Components (*Quantity*):

Spinal anesthesia needle (01 pcs); Filter (01pcs); Connector (01 pcs); 10 mL Luer-lock Syringe (01 pcs); 5 mL Syringe (02 pcs); Alcohol pad (02 pcs); Vacuum blood collection needle (01pcs); Needle holder (01pcs); Vacuum blood collection tube (01pcs); Bandage (01pcs); PRP separation tube (01pcs).

Reference Number: 415 (BIC-PRP Kit).

Size: Kit.

Intended use:

For research or manufacturing use only.

BIC-PRP Kit is used to isolate and activate platelet-rich plasma from 11-12ml of peripheral blood, umbilical cord blood, etc.

Summary and Explanation:

BIC-PRP Kit is a kit for blood collection and manufacturing of activated platelet-rich plasma. This kit draws blood using vacuum tubes and separates platelets by isopyclic centrifugation. PRP is activated through a filtration membrane, resulting in a final activated PRP product that does not contain any blood cells and has a high purity level. BIC-PRP Kit was researched and developed by Stem Cell Institute, HCMUS, VNUHCM, Viet Nam. BIC-PRP Kit guarantees to be sterile (0 CFU) with endotoxin level ≤ 1 EU/mL.

Known Applications:

BIC-PRP Kit provides a fast and convenient method to collect blood and manufacture platelet-rich plasma from peripheral blood or umbilical cord blood, etc.

Storage and Stability:

Storage and transportation temperature: Room temperature.

Expiry date: following the nearest expiry date of the components.

Instructions for Use:

- 1. Make sure the product is intact and within the expiry date.**
- 2. Blood Collection**
 - 2.1. Attach Vacuum blood collection needle (butterfly type) to the Needle holder.
 - 2.2. Clean the puncture site with an alcohol pad, then perform venipuncture.
 - 2.3. Advance the Vacuum blood collection tube into the Needle holder. Blood will automatically flow into the tubes.
 - 2.4. Collect blood until the tube is full. Gently invert tubes to mix blood with an additive).
- 3. PRP Production:**
 - 3.1. Open the Vacuum blood collection tube and PRP separation tube. Then transfer the blood gradually from the Vacuum blood collection tube into the PRP separation tube.
 - 3.2. Place the PRP separation tubes containing blood into the centrifuge (place 1 more counterweight tube in a symmetrical position).
 - 3.3. Centrifuge the tubes at **1500g for 10 minutes.**
 - 3.4. Gently take out the PRP separation tubes from the centrifuge.
 - 3.5. Attach the 10 mL Luer-lock Syringe to a Spinal anesthesia needle. Remove supernatant on the top and leave **1,0-1,5 mL** of plasma at the bottom (containing platelet pellet).

Please see the FactSheet to know about number of platelets in the tube.

3.6. Suspend the platelet pellet in the plasma, and aspirate 3-5 times. This mixture is inactivated platelet-rich plasma (PRP).

4. Activation and sterilization of PRP:

- 4.1. Collect inactivated PRP into the 10 mL Luer-lock Syringe.
- 4.2. Attach the 10 mL Luer-lock Syringe to the Filter.
- 4.3. Attach the Connector to the other end of the Filter.
- 4.4. Attach the 5 mL Syringe to the other end of the Connector.
- 4.5. Strongly push the piston of the 10 mL Luer-lock Syringe so that inactivated PRP goes through the Filter and into the 5 mL Syringe (The product in 5 mL Syringe is activated PRP).

Precautions:

Do not use the kit if the packaging is damaged or cracked, or if one of the kit components is abnormal.

Troubleshooting:

Not applicable.

Explanation of symbols and warnings:

The symbols present on the kit are explained below

			
Use By:	Batch code	Keep away from light	Catalog number
			
Temperature Limitation	Consult instructions for use	Caution, consult accompanying documents	Sterilized using aseptic processing techniques

Related products:

<i>Product Name</i>	<i>Reference Number</i>
5-PRP KIT	146
5-PRP KIT V1	376
SPRP KIT	170
SPRP KIT V1	190
RGML PRP KIT	148
RGML PRP KIT V1	166
5PRP – F KIT V1	416
5PRP – F KIT V2	417
SPRP – F KIT V1	418
SPRP – F KIT V2	419
SPRF KIT V1	393
SPRF KIT V2	388
5SPRF KIT V1	390
5SPRF KIT V2	389
COOL PRP	175
HEMAGEL	404

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