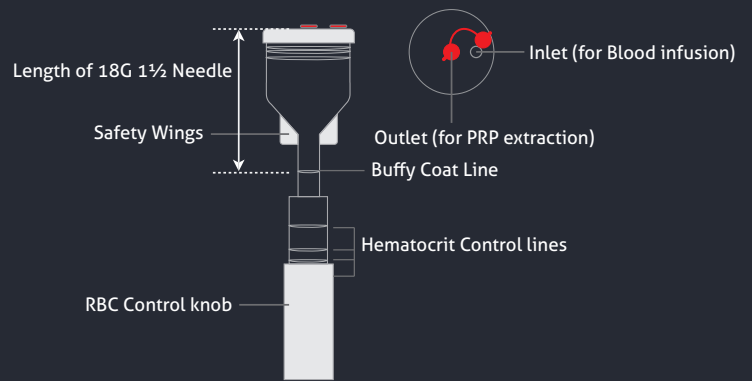


# ycellbio

Platelet Rich Plasma

## USER'S MANUAL

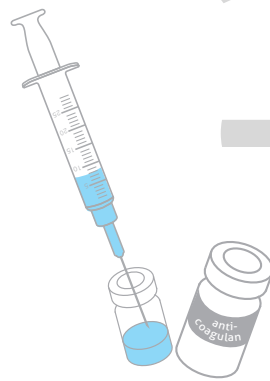
### Features of YCELLBIO Tube



#### Needed Supplies (for 1EA)

- Ycellbio Tube (1pc)
- Blood (15ml)
- Anticoagulant (1.5ml)
- 20cc Syringe (1pc)
- 5cc Syringe (1pc)
- 3cc Syringe (1pc)
- 21G 1¼ Needle(1pc)
- 18G 1½ Needle (2pcs)
- Alcohol-soaked Cotton
- Forceps

### Preparation



# 1

- 1) Before drawing anticoagulant, push the syringe plunger in and out several times to get rid of the air pressure inside the syringe.
- 2) **Draw 1.5cc anticoagulant in 20cc syringe** in advance before taking blood, and coat inside walls of the syringe with anticoagulant.

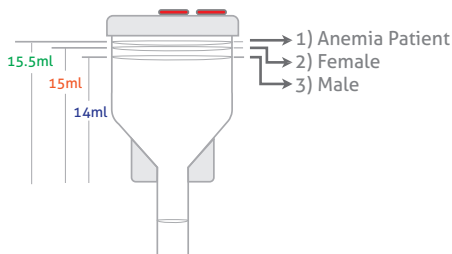
### Blood Gathering



# 2

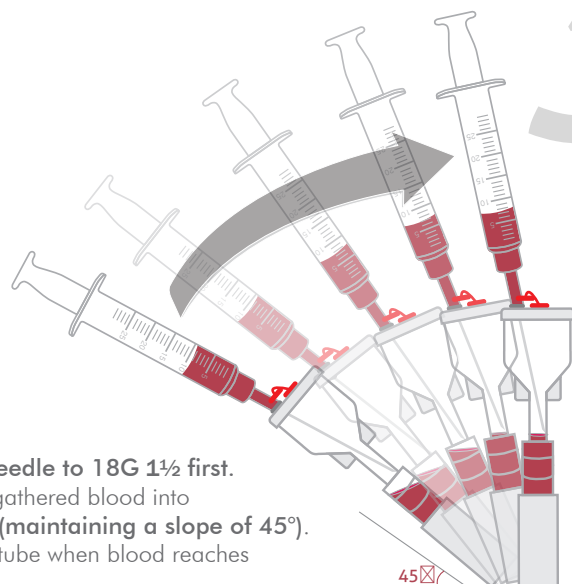
- 1) Before drawing, **change the needle to 21G 1¼**.
  - 2) **Draw 13.5ml blood.**
  - 3) Mix the blood and anticoagulant by swinging the syringe slowly.
- ※ Cautions
- Do not pull on the syringe plunger too hard or too quickly during a draw. Blood should be collected **gently and slowly** in order to avoid breakage of blood cells.

#### Blood Volum Guide Lines



- Fill up the blood in the tube following the singled lines depending on each condition of patients (Anemia, Female and Male).

### Collecting Blood into Tube



# 3

- 1) **Change the needle to 18G 1½** first.
- 2) **Transfuse** the gathered blood into YCELLBIO tube(maintaining a slope of 45°).
- 3) Straight up the tube when blood reaches the slim neck.

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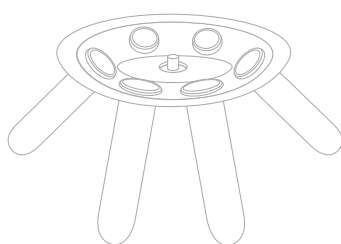


YCBM PRP kit is entered in the ARTG, 279546

## Centrifugation

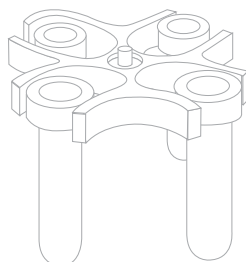
# 4

### Angle type



RPM : 3400~3800  
Time : 4 minutes  
RCF : 1,888\*g

### Swing type



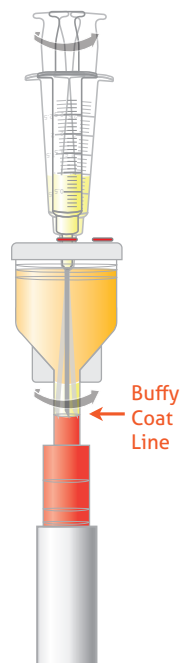
RPM : 3200~3300  
Time : 4 minutes  
RCF : 1,888\*g

#### ※Cautions

- Centrifuge balance is one of the most significant factors in the blood separation process.
- Centrifuge imbalance can cause breakage of tubes during spinning in a centrifuge. Therefore, please make sure if centrifuge is in a state of balance before operation.

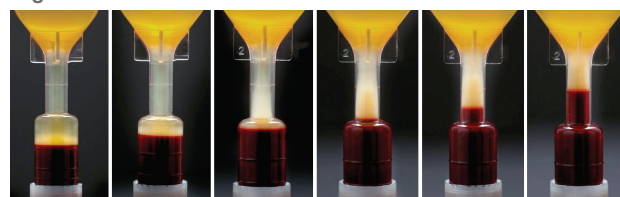
## PRP Extration

# 5



- 1) Prepare the **18G 1½** needle.
- 2) Adjust RBC level using the bottom control knob for the needle edge to reach the border line of RBC (refer to **Figure 1**).
- 3) Open the outlet of the middle using a piece of alcohol-soaked cotton.
- 4) Aspirate Buffy Coat and a little Plasma spinning the needle.
- 5) Collect **1.5ml~2ml of PRP** into 3ml syringe.
- 6) Collect **5ml of PPP** into 5ml syringe.

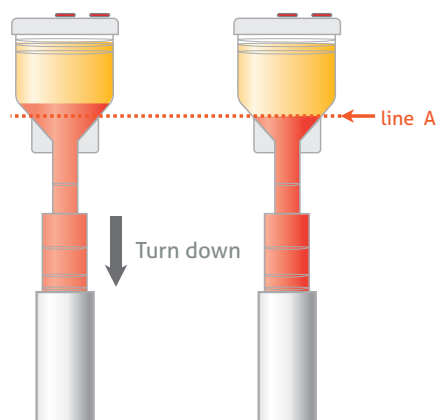
Figure 1



· Elevate concentrated platelets(buffy coat) up to the **Buffy Coat Line**.

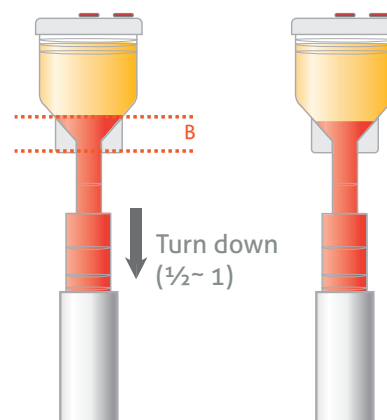
## When is the 2 centrifugation needed?

### CaseA Elevated Hematocrit (high)



If RBCs remain above the slim neck after 1st spin, turn down the control knob to line A and take another 4 min spin with the same speed.

### CaseB Elevated Hematocrit (middle-high)



If RBCs remain in the signed range B, lower RBCs a little by one or half turn of the control knob to the left.