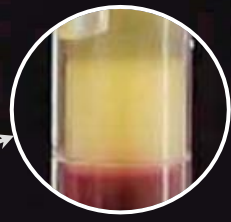


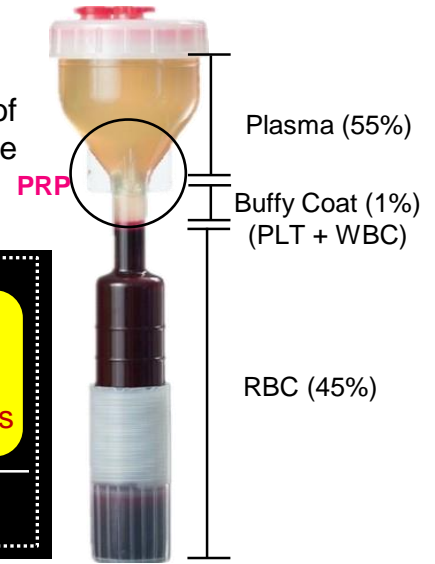
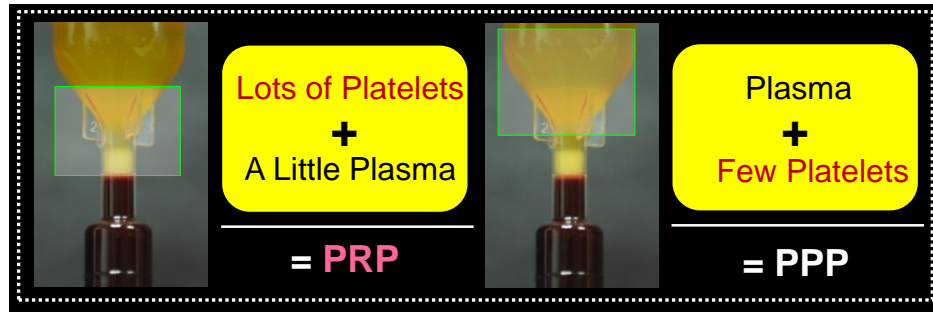
MAXIMAL PRP BANK YCELLBIO-KIT



- Utility Model Patent Registered
- Apply for PCT

What is PRP?

Platelet Rich Plasma (abbreviated PRP) is a concentration of platelet cells taken from your blood, and these platelets have growth factors that help in the healing process of injuries.



* **What is Buffy Coat?** Buffy Coat contains most of the platelets and white blood cells following centrifugation.

❌ PLEASE DON'T CONFUSE PRP WITH PPP

| | | |
|--|---|--|
| PRP (Platelet Rich Plasma) | ≠ | PPP (Platelet Poor Plasma) |
| Blood plasma that has been enriched with platelets | | Blood plasma with very low number of platelets |

Buffy Coat accounts for only 1% of total blood.

The more PPP you include in PRP, the more mixture (alleged PRP) you may gain. However, it cannot be considered as PRP and has no effect for a treatment because its platelet density is low.

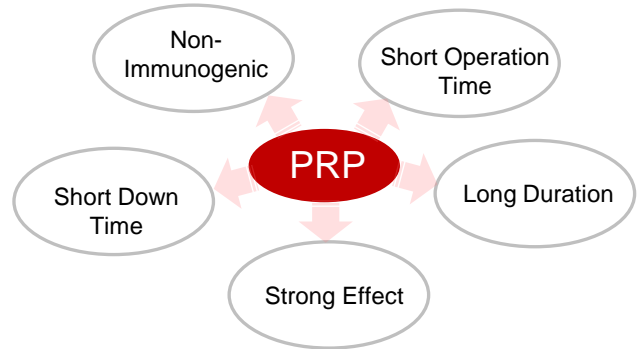
Platelet “Rich” Plasma must contain more than **1,000,000**/μl platelet count

Growth Factors in PRP

PRP includes lots of essential growth factors (EGF, VEGF, PDGF, TGF-β, FGF) that accelerate the cell regeneration and the wound healing process.

| Growth Factors in PRP | | Function |
|-----------------------|------------------------------------|--|
| EGF | Epidermal Growth Factor | stimulates cell growth, proliferation, and differentiation by binding to its receptor EGFR |
| VEGF | Vascular Endothelial Growth Factor | stimulates vasculogenesis and angiogenesis. It is part of the system that restores the oxygen supply to tissues when blood circulation is inadequate. |
| PDGF | Platelet Derived Growth Factor | regulates cell growth and division, and plays a significant role in blood vessel formation (angiogenesis), the growth of blood vessels from already-existing blood vessel tissue. |
| TGF-β | Transforming Growth Factor -Beta | controls proliferation, cellular differentiation, and other functions in most cells |
| FGF | Fibroblast Growth Factors | involves in angiogenesis, wound healing, and embryonic development. FGFs are key players in the processes of proliferation and differentiation of wide variety of cells and tissues. |

PRP Therapy Advantages



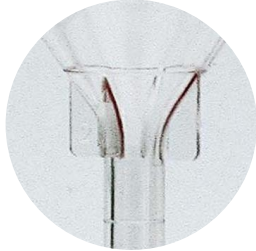
- No rejection, using autologous blood.
- Quick and simple procedure.
- No need to take an incision.
- The Fundamental solution for improvement
- Strong and long lasting effects

What is 'Good PRP Kit'?

| | | |
|---|--|---|
| High Enrichment | Suitability | Convenience |
| It should generate highly concentrated PRP that contains 1,000,000/μl PLT count | It should be fit for all kinds of centrifugal machines | It should be easy to use and draw not too much blood. |
| Accuracy | Hygiene | Safety |
| It should allow operators to extract buffy coat, isolating RBC. | It should be perfectly sterilized and packed separately to prevent any contamination or accidents. | It should be approved from FDA, KFDA, and CE. |

KEY FEATURES OF YCELLBIO PRP KIT

Scientific Design



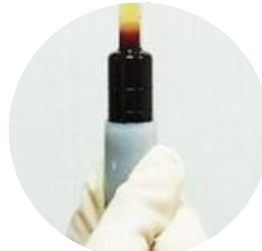
Y Shape

Clear separation of Plasma, RBC, and PLT through the scientific Y-shape design.



Slim Neck

Accurate extraction of buffy coat with the slim and transparent neck.



Control Lever

Free control of RBC level with the control lever.



Versatile Size

Suitable size for all types of centrifugal machines. (Swing and Angle type)



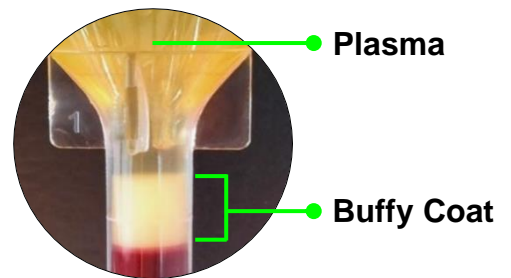
Safety Wings

- YCELLBIO Kit has 4 safety wings that hold up the upper body of the kit which is bigger and heavier than the lower parts.
- Safety wings prevent the kit from being broken while centrifugation.

Properties

| | Blood Sample Vol. | PRP Vol. | PLT Count (per micro liter) | PLT Enrichment |
|--------------|-------------------|----------|-----------------------------|----------------|
| YCELLBIO KIT | 13.5~15 ml | 1~2 ml | 1,200,000~2,000,000 | 7~9 X |

Clear Buffy Coat

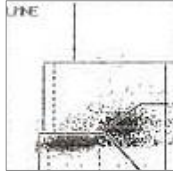


You can check clear buffy coat in the slim neck after centrifugation.

PLATELET COUNT IS THE KEY FOR EFFECTIVENESS

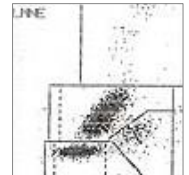
YCELLBIO Enrichment Test Results

| Before Separation | | | |
|-------------------|------------|---|--------------------------------------|
| WBC | 4.6 | | $10^3/\text{mm}^3$ |
| RBC | 4.67 | | $10^4/\text{mm}^3$ |
| HGB | 14.0 | | g/dl |
| HCT | 41.1 | | % |
| MCV | 88 | | μm^3 |
| MCH | 29.9 | h | pg |
| MCHC | 34.0 | | g/dl |
| RDW | 13.3 | | % |
| PLT | 182 | | $10^3/\text{mm}^3$ |
| MPV | 8.2 | | μm^3 |
| PCT | 0.149 | l | % |
| PDW | 13.8 | | % |



PLT count before concentration
162,000/ μl

| After Separation | | | |
|------------------|-------------|----------|--------------------------------------|
| WBC | 14.6 | !H | $10^3/\text{mm}^3$ |
| RBC | 0.13 | L | $10^4/\text{mm}^3$ |
| HGB | 0.6 | L | g/dl |
| HCT | 0.8 | #L | % |
| MCV | 60 | #L | μm^3 |
| MCH | 0.0 | L | pg |
| MCHC | 0.0 | #L | g/dl |
| RDW | 6.5 | L | % |
| PLT | 1604 | H | $10^3/\text{mm}^3$ |
| MPV | 8.2 | | μm^3 |
| PCT | 1.314 | H | % |
| PDW | 14.3 | | % |



PLT count after concentration
1,521,000/ μl



YCELLBIO kit is capable of generating **7~9 times** concentrated PRP (having 1,200,000~2,000,000/ μl PLT count).

✂ For an effective treatment, the platelet count must be 4X or greater than baseline.

Simple Procedure

1 Blood Gathering

Draw 1.5ml anticoagulant (ACD-A) and 13.5ml blood in 20cc syringe.



2 Blood Collecting in kit

Put the gathered blood into YCELLBIO Kit.



3 Centrifugation

Separate the blood in a centrifuge.



4 PRP Extraction

Extract 1~2cc of PRP in 3ml syringe using Tornado method.



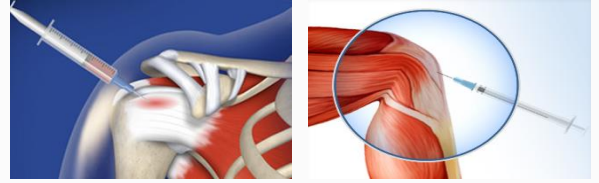
Applications

Dermatology

- **PRP** + FNS (auto MTS)
- **PRP** + Laser Therapy
- **PRP** + Hyaluronic Acid Injections
- **PRP** + Multy Needle Injection
- **PRP** + High Frequency Treatment



Orthopedic



- Shoulder
- Elbow
- Wrist
- Pelvis
- Knee
- Ankle

Plastic Surgery

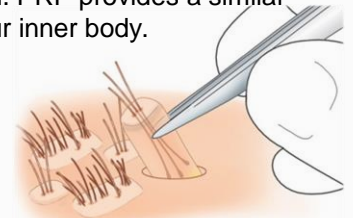
- **PRP** + Face Lifting (EZ, ULTRA, TR)
- **PRP** + Autologous Micro Fat Graft
- **PRP** Only



Alopecia

- **PRP** + Hair Transplantation

In PRP, the extracted hairs can be kept optimal for transplantation. PRP provides a similar environment of our inner body.



Ophthalmology

- **PRP** + LASIK
- **PRP** + LASEK

PRP treatment minimizes pains caused from LASIK or LASEK, relieves xerophthalmia, and facilitates cornea regeneration.



MAXIMAL PRP BANK