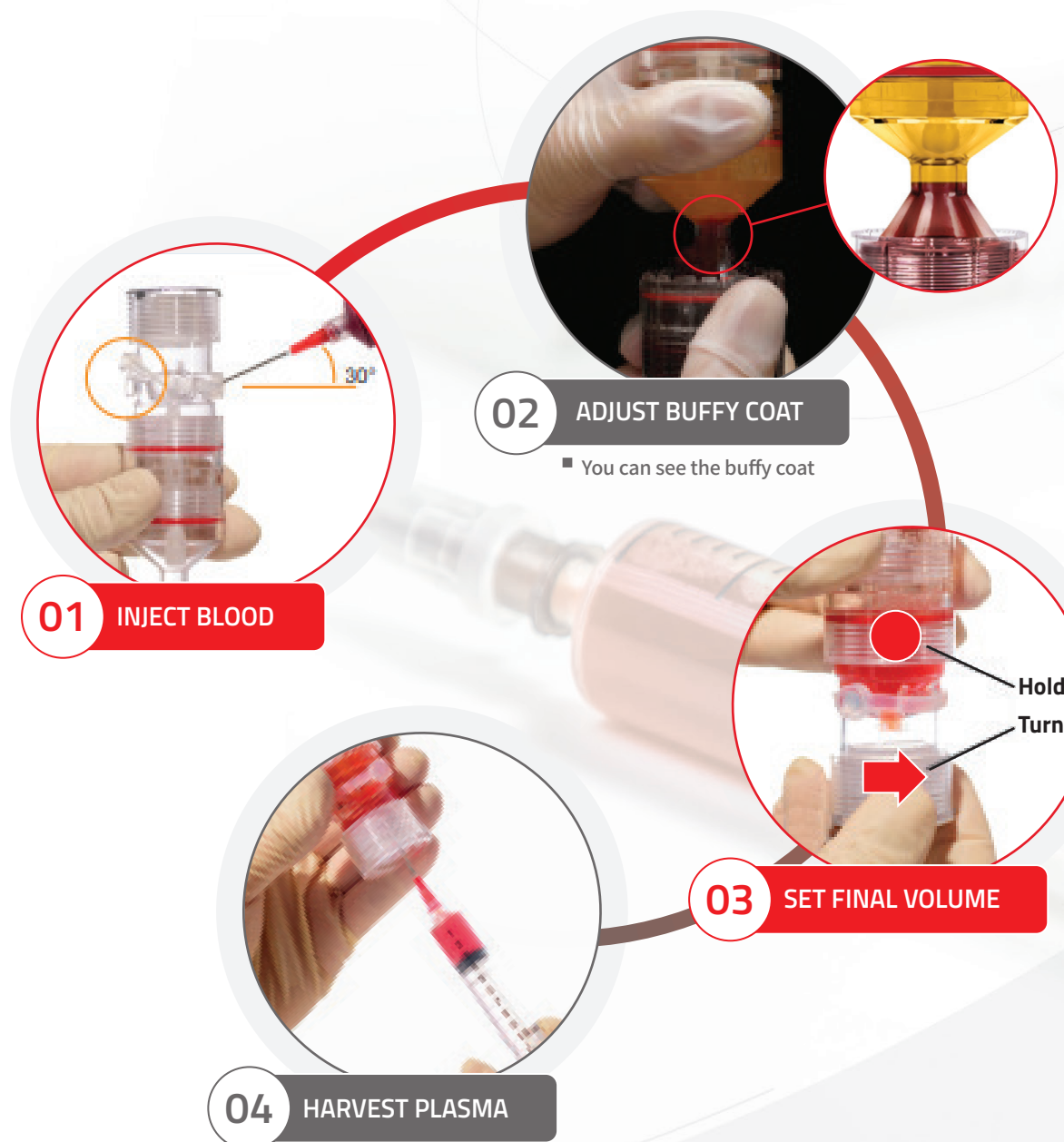


## Articles

Reference No.	Volume	Reference No.	Volume
TriCell PRP Kit	30ml	TriCell PRP L	50ml
TriCell PRP New	30ml	TriCell PRP M	30ml
TriCell PRP New S	15ml	TriCell PRP S	15ml

## How to Use TriCell



www.rev-med.co.kr

REV-MED is always committed to leading technical innovation in Regenerative Medicine Solution & Bioengineering Technology.

## Biologics

### TriCell PRP



TriCell PRP is a product used to separate a buffy coat layer containing a large number of platelets from a blood sample. As the kit consists of three parts, TriCell PRP can separate and concentrate plasma or platelets from blood through two centrifugation processes using each cell.

### TriCell BMC



TriCell BMC is a product used to separate bone marrow cell components containing concentrated growth factors through a centrifuge after collecting bone marrow. The safety has been improved through the sealing structure without cell contamination, and foreign substances can be removed during bone marrow injection through the filter inside the kit.

### DUOCELL SVF Kit



The DUOCELL SVF Kit is a kit used to extract stem cells from fat collected from the human body and to separate them in order to inject them into parts needing regeneration.

## Lasers



### Hilthera 4.0

Hilthera4.0 is a laser device using a Nd:YAG ROD medium that relieves pain by irradiating laser energy power of 1,200mJ (1064nm) to the skin.



### Plasma D30 / D30 plus

The plasma D30 / D30 plus spine system is a laser device used during surgery in order to incise, remove tissues through 980nm diode laser using plasma light.



### OnyRay

OnyRay, which is a medical laser irradiation device used to treat onychomycosis, is a safe non-thermal laser treatment device that uses a laser with two wavelengths of 635nm and 405nm and LEDs of two wavelengths.

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# TriCellPRP

Platelet Plasma Products





TriCellPRP Kit Structure



Advantages of TriCellPRP Kit



High Concentration



Safe (No Contamination) with the completely closed system



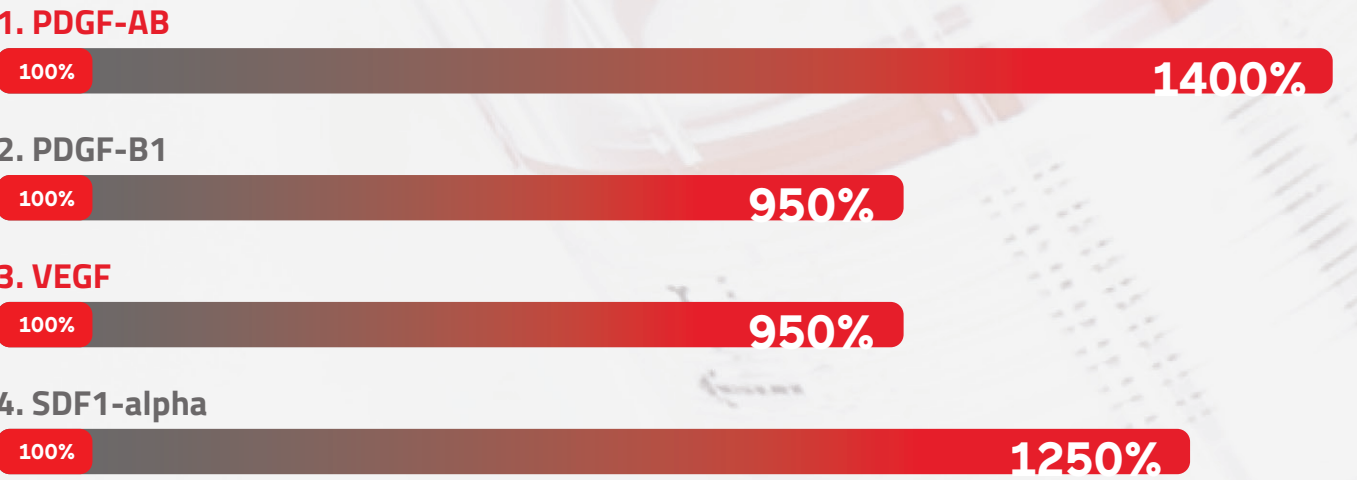
Selection for Desired Plasma Product by adjusting the amount of Buffy Coat layer



Easy to Use with the transparent triple chambers

Growth Factors in Platelet

Blood TriCell \* Source | Ajou university Hospital



PDGF	<div>· Chemoattractive to Mesenchymal Stem Cells and endothelial cells</div> <div>· Differentiation for Fibroblasts and Osteoblasts</div> <div>· Upregulation of other growth factors on cells such as macrophages</div>
TGF-β	<div>· Promote cell mitosis &amp; differentiation of connective tissue &amp; bone</div> <div>· Acts on Mesenchymal Stem Cells, preosteoblasts and fibroblasts</div> <div>· Inhibits osteoclast formation</div>
IGF	<div>· Mitogenetic to osteoblast lineage cells and stimulators of bone formation from existing osteoblasts</div>
VEGF	<div>· Stimulate angiogenesis, chemoattractive for osteoblasts</div>
EGF	<div>· Induce epithelial development and promote Angiogenesis</div>

Cell counts and levels of growth factors

\* Mean ± SD

Item	Whole blood (30ml)	TriCellPRP (3ml)	Concentration rate
Platelet Count (x 10 <sup>3</sup> /μL)	182.47 ± 37.53	1,440 ± 439.13	7.89
WBC (10 <sup>3</sup> /μL)	5.22 ± 1.84	25.87 ± 13.89	4.95
SDF-1α (pg/mL)	1,500 ± 866.03	20,000 ± 2,828.43	13.33
PDGF-AB (ng/mL)	10.2 ± 1.4	88.4 ± 28.8	8.70
TGF-β1 (ng/mL)	41.8 ± 9.5	231.6 ± 49.1	5.50
VEGF (pg/mL)	83.1 ± 65.5	597.4 ± 431.4	7.20
bFGF (pg/mL)	10.7 ± 2.9	48 ± 25.0	4.50
EGF (pg/mL)	12.9 ± 6.2	163 ± 49.4	12.70
CD34+ (total cells delivered)	—	42,019	—

Composition of Whole Blood

“What the experts require ICMS Platelet Rich Plasma Guidelines”

The application of Platelet Rich Plasma (PRP) has been documented in many fields ranging from :Orthopedics, Sports Medicine, Dentistry, Neurosurgery, Ophthalmology, Urology, Wound Healing, Cosmetic, Cardiothoracic, and Maxillofacial Surgery.

The initial popularity of PRP grew from its promise as a safe and natural alternative to surgery. PRP advocates promoted the procedure as an organically based therapy that enabled healing through the use of one’s own natural growth factors.

Studies suggest that platelets contain an abundance of growth factors and cytokines that can affect inflammation, postoperative blood loss, infection, osteogenesis, wound, muscle tear, and soft tissue healing.

Research shows that platelets also release many bioactive proteins responsible for attracting macrophages, mesenchymal stem cells, and osteoblasts that not only promote removal of degenerated and necrotic tissue, but also enhance tissue regeneration and healing.

1 Plasma

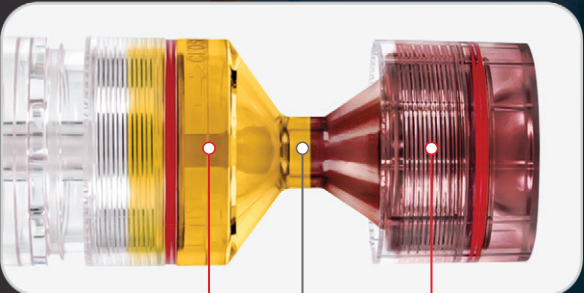
Constitutes about 52-62% of whole blood. Plasma is a fluid, composed of ~92% water, 7% vital proteins such as albumin, gamma globulin, clotting factors, and 1% mineral salts, sugars, hormones, fats, and vitamins.

2 Buffy Coat

Contains White Blood Cells (WBC) and Platelets, which constitute less than 1% (each) of whole blood. WBC, or leukocytes, are one of the body’s defenses against disease. Platelets, or thrombocytes, are small, colorless cell fragments in the blood whose main function is to interact with clotting proteins to stop or prevent bleeding. Platelets also contain growth factors, necessary for stem cell attraction.

3 Red Blood Cells (RBC)

RBC, or erythrocytes, constitute approx. 38~48% of whole blood. These cells carry oxygen from the lungs to the body’s tissue and take carbon dioxide back to the lungs to be exhaled.



1 2 3



# TriCellPRP Kit Structure



## Advantages of TriCellPRP Kit



High Concentration



Safe (No Contamination)  
with the completely  
closed system



Selection for Desired  
Plasma Product by  
adjusting the amount  
of Buffy Coat layer



Easy to Use with the  
transparent triple  
chambers

# Articles

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