

## Properties

Model	3E-10	3E-20
Blood Vol.	8.5ml	17ml
Anicoagulant Vol.	1.5ml	3ml
Composition	10ml Kit, 5ml Syringe, 1ml Syringe, Cap, Connector	20ml Kit, 10ml Syringe, 1ml Syringe, Cap, Connector



## Process

### 1. Blood collection - Centrifuge



Draw anticoagulant



Collect blood



Install the cap and remove the plunger



Place the syringe with opening side up - Centrifugation

### 2. Extraction



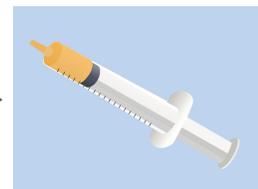
Recombine the plunger and install the connector



Combine the syringe for PPP extraction and push up to extract



Combine the syringe for PRP extraction and push up to extract



PRP extraction complete

## Specification of 3E PRP for centrifuge

### 3E PRP

Capacity (ml)	10ml	20ml
ø X L mm Dimensions	17.04ø x 102mm	29.95ø x 114mm



## 3E PRP

System of Regenerative Therapy  
**INNOVATIVE TECHNOLOGY FOR PRP EXTRACTION**

**Pervice Korea Co., Ltd.**

76 Dongnae-ro, Dong-gu, Daegu, Republic of Korea

Tel : +82-2-783-9114

www.pervice.net

# What is PRP ? : Autologous blood regeneration therapy

Platelet-rich Plasma (PRP) refers to the blood plasma which contains various growth factors that stimulate healing and regeneration in human body. It is used for tissue regeneration and pain relief by separating and concentrating platelets in the blood.

## Roles of Growth Factors

### PDGF

- Induces cell proliferation
- Stimulates osteoblasts proliferation
- Osteoid tissue production
- Stimulates endothelial cell proliferation, angiogenesis and fibroblast proliferation

### TGF-B

- Stimulates cell replication and production
- Induces cartilage and bone tissue differentiation
- Facilitates mesenchymal cell differentiation and angiogenesis

### VEGF

- Stimulates the production of basal plate
- Replenishment of epithelial cells
- Angiogenesis

### EGF

- Stimulates epithelial cell growth
- Induces angiogenesis for rapid wound recovery

### FGF

- Stimulates epithelial cell growth
- Induces angiogenesis for rapid wound recovery

## Advantages of 3E PRP



### 1. Concentration rate

The most important thing in PRP is the concentration level of PLT (platelet = growth factor). The higher the PLT count, the more effective it is for treatment.



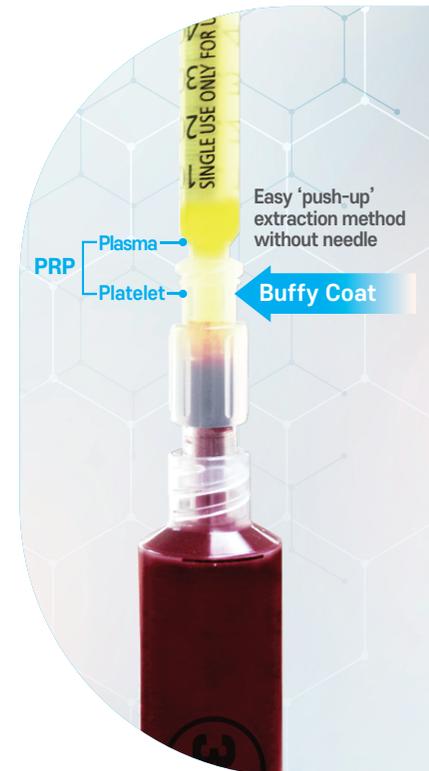
### 2. Safety

As a syringe-type kit, it can be centrifuged immediately after blood collection, thus minimizing infection or contamination that may occur in the process of transferring blood.



### 3. Convenience

All components necessary for the procedure are composed of one kit, and it is convenient to use with push-up operation.

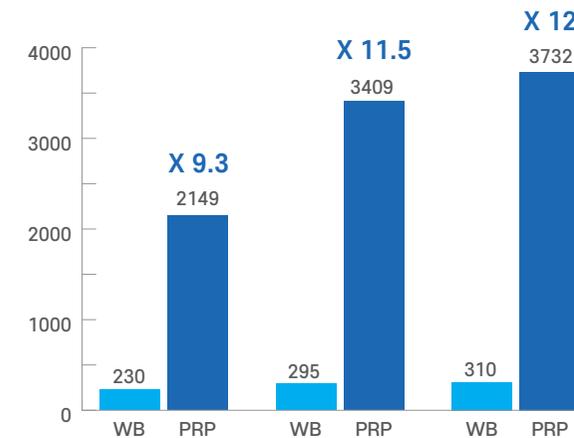


## Application

- Ophthalmology**  
Dry Eye Syndrome (DES), Vision correction (LASIK, LASEK), Cataract, Oculoplastic surgery
- Orthopedics/Rehabilitation**  
Tennis elbow, Knee cartilage repair, Shoulder pain
- Dentistry**  
Implant surgery, Tooth extraction, Bone graft
- Dermatology**  
Burn, Bedsore, Chronic ulcer, Acne
- Plastic surgery**  
Skin rejuvenation, Fat graft
- Alopecia clinic**  
Hair loss prevention, Hair growth stimulation, Hair transplant
- Obstetrics and gynecology**  
Infertility, Urinary incontinence, Sexual dysfunction



## Platelet (PLT) Concentration



연구용검사 결과보고서

의뢰자: Pervice Korea Co., Ltd. Ms. Erica Lee  
 검사종류: Whole Blood, Plasma  
 관리번호: 2020-181-651

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 결과보고일: October 28, 2020

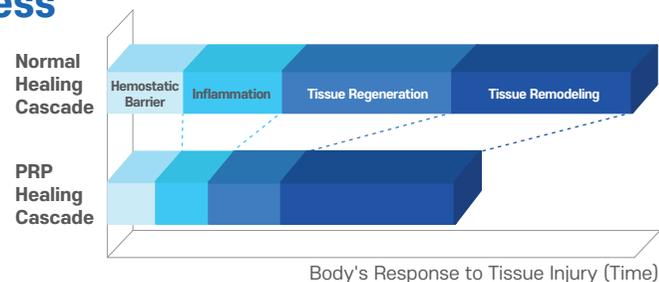
No.	Name	Platelet	Unit
1	MG.	230	10 <sup>9</sup> /μL
2	HK.	295	10 <sup>9</sup> /μL
3	YJ.	310	10 <sup>9</sup> /μL
4	MG.	2149	10 <sup>9</sup> /μL
5	HK.	3409	10 <sup>9</sup> /μL
6	YJ.	3732	10 <sup>9</sup> /μL

2149, 3409, 3732 are the result of inspection with Plasma sample

[Source] Pervice Korea Co., Ltd. GC Green Cross Medical Foundation platelet count test results

## PRP wound healing process

The wound is healed through the process of hemostasis -> inflammation -> regeneration -> remodeling, and PRP therapy shortens this wound healing process.



3E PRP received a Korean patent for 'Blood Centrifugation Syringe Kit with Detachable Plunger'. [Patent No. 10-1827783]

