PLASMA-X®

FINNISH SERVICE

PLASMAX LAB®

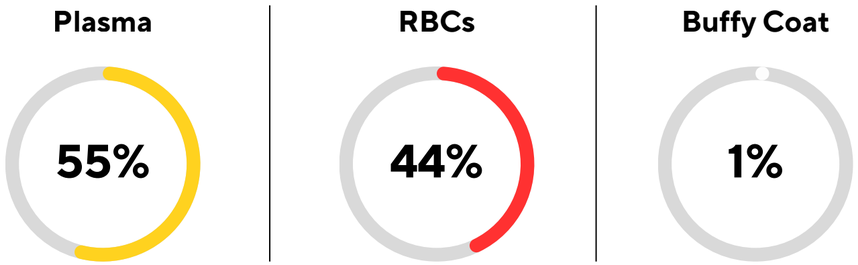
PLASMAX LAB is a Finnish startup company specializing in regenerative medicine technologies, with a primary focus on advanced PRP (Platelet-Rich Plasma) systems. The company develops and supplies the PLASMA-X PRP system — a high-quality, CE-certified solution designed to ensure consistency, safety, and superior platelet concentration for clinical use.

As an innovation-driven startup, PLASMAX LAB places strong emphasis on product development, continuously refining its PRP systems and exploring next-generation regenerative solutions. The company actively collaborates with medical professionals and research institutions to advance autologous therapies, supporting clinics and hospitals across orthopedics, dermatology, and aesthetic medicine.

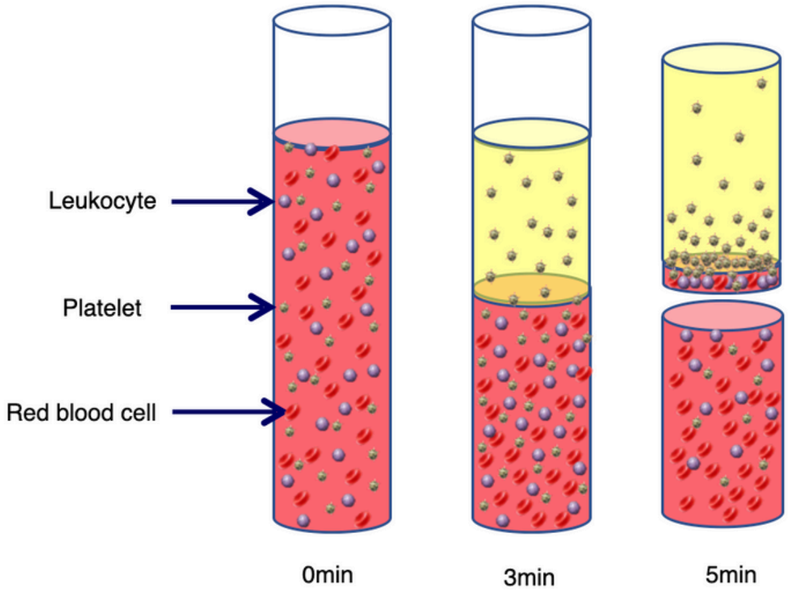
With a vision to become a leading global provider of regenerative solutions, PLASMAX LAB combines scientific research, technological innovation, and client-focused service to deliver reliable, evidence-based products that enhance patient outcomes.

What is PRP?

Platelet-rich plasma (PRP) is a concentrated solution of platelets obtained after the centrifugation of blood. By harnessing your body's own regenerative power, PRP promotes tissue repair, reduces inflammation, and supports cell growth.



Composition of whole blood



Process of blood separation using PLASMA-X PRP

Platelets, body's natural repair mechanisms

In healthy individuals, the average platelet count in blood is around 200,000 platelet cells/µL. After centrifugation of blood, the platelets accumulate in a fraction known as PRP. Since this fraction contains a higher concentration of platelets, it enables healthcare professionals to stimulate the body's natural regeneration mechanisms.

Bioactive Molecules that stimulates regeneration

Platelets contain over 300 bioactive molecules, including:
Growth factors (PDGF, VEGF, TGF-β)
Cytokines
Adhesion proteins

These stimulate tissue repair, collagen production, and angiogenesis — making PRP a powerful tool in aesthetic, orthopedic, ophthalmologic, and veterinary medicine.

PRP Applications-Clinical Areas

Aesthetics & Plastic Surgery	Skin rejuvenation, wrnkles, acne scars, hair loss, fat graft
Orthopedics & Pain	Cartilage/ligament repar, tendonitis, post-operative pain, inflammation reduction, chronic pain, leg ulcers, burns
Ophthalmology	Epithelial defects of the cornea, dry eye, ocular surface, post-laser sergery syndrome
Veterinary	Tendon and ligament injuries, wound healing, osteoarthritis treatment

PRECISION. CONTROL. RESULT.

PLASMA-X PRP

PLASMA-X PRP offers a complete and convenient solution for Platelet-Rich Plasma preparation. This all-in-one system includes all the necessary accessories for a streamlined workflow.

With a single centrifugation step, PLASMA-X PRP simplifies the process while maximizing platelet concentration. Its user-friendly design minimizes cell loss, ensuring optimal PRP quality.

Experience the ease and efficiency of PLASMA-X PRP for your regenerative medicine needs.

Direct collection of PRP & PPP
Customizing plasma sample with leukocyte rich or poor plasma

Visualizing buffy coat
Maximizing platelet counts and reduce blood cells

Screw Pusher
Stable and eay control of blood cells, leading to consistent result

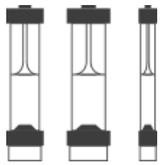
WHY TO CHOOSE PLASMA-X ?

5 minutes of a single spin method makes the treatment in less time.

The unique funnel design visualises buffy coat layer and prevents cell loss

The closed system of PLASMA-X PRP is safe from contamination

The smart design of PRP system enables practitioner consistently obtain high quality PRP



Various PRP models (10, 20, 30, 60 cc) are available for your needs

PLASMA-X PRP is all in one pack for PRP preparation.
It is designed for your easy PRP preparation and saving time

Note: Platelet concentration may vary depending on the plasma volume. The final PRP volume depends on the PRP tube size (10, 20, 30, and 60 mL).

1 Single Spin 5 min	Platelet Concentration 3x - 12x	Recovery Rate > 80%	PRP Volume 5-30 ml

SIMPLE. FAST. ACCURATE.

Step-by-Step Process

PROTOCOL of PLASMA-X PRP

01 Blood Collection

Draw whole blood using a butterfly needle and transfer it into the PLASMA-X PRP tube containing anticoagulant

02 Centrifugation

Spin the tube once using a swing-out or fixed angle rotor centrifuge for 5 minutes.

03 Blood separation

After centrifugation,
the blood is separated.
Top: Platelet-Poor Plasma (PPP)
Middle: Buffy Coat (Platelet-Rich Plasma)
Bottom: Red Blood Cells (RBCs)

04 Plug Screw Pusher Rotation

Plug a screw pusher at bottom of the Plasma-X PRP Tube

05 PPP & PRP Collection

Plug a screw pusher at bottom of the Plasma-X PRP Tube

06 PRP is ready for use

DISCOVER

Versatile Line-Up

Tailored to Every Clinical Need

PLASMA-X PRP are in four tube sizes to suit different specialties and treatment volumes. Whether you perform a small facial injection or treating a large joint, there's a model for you.

Summary Highlights

Sterilized by gamma ray
Made under GMP conditions
Delivered as complete kits (from blood collection to injection)

Main features of PLASMA-X PRP SYSTEM

Model	PRP Volume	Platelet Concent.	Tube Size (cm)	Centrifuge Type	Clinical Use Examples
PXA-10	1–3 ml	Up to 8x	Ø1.6 × H12.9	Fixed angle Swing out	Facial aesthetics, hair, small grafts
PXA-20	2–10 ml	Up to 16x	Ø3.8 × H12.2	Swing out	Orthopedic injections, mesotherapy
PXA-30	3–15 ml	Up to 25x	Ø3.8 × H12.2	Swing out	Orthopedics,Fat grafting, microneedling, PRP gels
PXA-60	6–30 ml	Up to 48x	Ø3.8 × H12.7	Swing out	Orthopedics, Joint therapy, veterinary, multi-site use


Revolutionary All in One PRP System

Certifications and Compliance

Approved for use in the European Union – meets essential health, safety, and environmental protection requirements.

PLASMA-X PRP is registered in EUDAMED (European Database on Medical Devices) in accordance with MDR (EU) 2017/745.

International standard for quality management in medical devices – ensures safety and consistency in manufacturing.

Licensed for clinical use in South Korea – regulatory clearance from Korea's FDA.

Gamma Ray Sterilized

Tubes and kits are sterilized using gamma irradiation for maximum microbial safety.

PLASMA-X®

SCREW PUSHERS

10 20 30 60 ml

Layer-by-Layer Extraction:

The screw pusher gently moves the plasma layers upward, allowing you to isolate PPP, PRP, and buffy coat with exceptional precision.
Visual Control: No guessing — the transparent design lets you visually identify the buffy coat zone for targeted PRP collection.

Reusable & Cost-Effective:

The screw pusher is reusable. Simply match it with the corresponding syringe size (e.g. 10 ml or 30 ml), and it can be used across multiple PRP preparations — no need for disposable pushers each time.

Closed & Sterile Workflow:

Keeps the process closed, safe, and contamination-free, maintaining the integrity of the platelet concentrate.

Compatible with All PLASMA-X Tubes:

Each pusher is engineered to fit our tube, ensuring tight sealing and smooth pressure control.

FIXED ANGLE CENTRIFUGE

PX50

Compact. Reliable. Clinic-friendly.

Features:

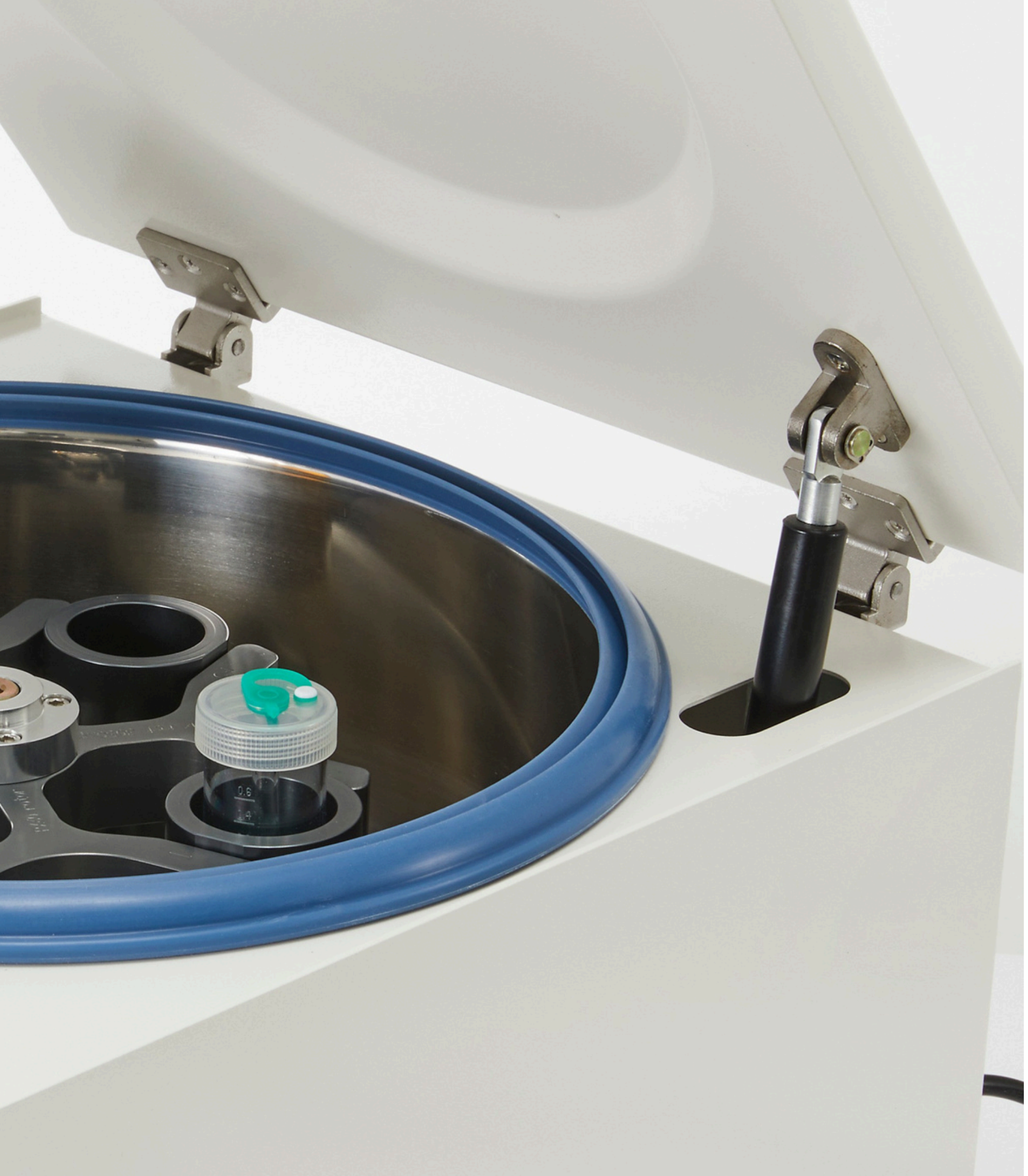
Max Speed: 3158 RPM
Max RCF: 1800 ×g
Timer Range: 0–99 min
Motor: AC speed control motor
Noise Level: ≤65 dB (A)

Benefits:

Fast acceleration and deceleration
Built-in shock absorber = low vibration
CE-marked.

Tube compatibility:
PXA-10

Rotor type:
Fixed angle



SWING-OUT

PX100 Stability for high-volume PRP needs.

Features:

Max Speed: 3158 RPM

Max RCF: 1800 ×g

Timer Range: 0–99 min

Motor: Brushless AC motor with PWM control

Noise Level: ≤65 dB (A)

Benefits:

Swing rotor for horizontal separation

Compatible with multiple rotor options

Automatically balances loads during spin

Tube compatibility:
All models (PXA-10 / 20 / 30 / 60)

Rotor type:
Swing-out rotor

Proven Versatility Across Clinical R&D

1. **Effectiveness and Complications of Bone Marrow Aspirate Concentrate in Patients with Knee Osteoarthritis of Kellgren–Lawrence Grades II–III**, JH Baek, et al, Midicina 2024, 60(6), 977
2. **The Effect of autologous platelet-rich plasma on bone regeneration by autologous mesenchymal stem cells loaded onto allogeneic cancellous bone granules**, MW Joo, et al, Cells Tissues Organs 2017, 203, 327–338
3. **Effect of autologous platelet-rich plasma application on cutaneous wound healing in dogs**, CH Jee, et al, J Vet Sci 2016, 17(1), 79-87
4. **Platelet-rich plasma protects hippocampal neurons and memory functions in a rat model of vascular dementia**, JH Moon, et al, Anat Cell Biol 2024, 559-569
5. **Pro-angiogenic effects of canine platelet-rich plasma: In vitro and In vivo evidence**, SW An, et al, Animals 2025, 15(15), 2260
6. **Comparing Biologic Factor Composition of Birth Tissue-Derived Allografts and Platelet-Rich Plasma**, AJ Panero, Cureus 2025, 17(8): e90259

Collaborate with PLASMA-X to progress your R&D idea

Are you a physician, clinician or research invesigator working on regenerative medicine?

We support through:

1. Clinical Research Collaboration
2. Partnership/Pilot Program
3. R&D and Product Development Cooperation
4. Educational & Training Collaboration

PRP Preparation Training

BOOK NOW

www.plasmaxlab.com

We offer hands-on training sessions for healthcare professionals (HCPs) to master the preparation of PRP using our innovative devices. These sessions are designed to learn a simple, standardized, and highly effective extraction method that ensures optimal platelet concentration and clinical results. Whether you're new to PRP or seeking to refine your technique, our training helps you gain confidence in every step — from blood collection to precise PRP isolation.

Our training sessions are available through interactive online sessions or hands-on courses on-site.

PLASMAX LAB®

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