

NATURAL: 100% AUTOLOGOUS

- No Anticoagulant
- No Bovine Thrombin
- No Heating
- No Pipetting
- No Second Spin
- No Chemical Additives
- No Expensive Consumables

bone & tissue
regeneration

botiss
biomaterials

 **L-PRF**

Better ideas.™ 

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Leukocyte - Platelet Rich Fibrin



L-PRF™ is a 3-D autogenous combination of Platelet Rich Fibrin derived from the patient's blood¹. A simplified chairside procedure results in the production of a thin, compressed layer of platelet rich fibrin that is strong, pliable and suitable for suturing. This natural fibrin network is rich in platelets, growth factors and cytokines that are derived from the blood platelets and leukocytes¹.

The presence of these proteins have been reported to produce rapid healing, especially during the critical first seven days after placement².

This network promotes more efficient cell migration and proliferation without chemical or bovine thrombin additives³.

- Simple and economic⁴
- Natural - 100% autologous⁴
- Thin Fibrin Matrix & Plugs⁴
- Leukocytes, Platelets and Fibrin¹
- Slow Release at ≥ 7 days¹
- Matrix for Bone Graft Material⁵

Clinically, Leukocyte-Platelet Rich Fibrin displays excellent working properties. This biomaterial is resilient, strong and pliable, making it easy to manipulate. It can be cut to size, and is supple enough to adapt to many anatomical areas. It is adhesive in nature and very receptive to suturing. In addition, there is ample working time since L-PRF™ is stable at room temperature for several hours⁴.

INTRASPIN™ SYSTEM

The IntraSpin™ System establishes a three-step protocol for drawing and centrifuging the patient's blood, removing the fibrin clot and processing it in the Xpression™ Fabrication Kit. A thin, compressed layer of Platelet Rich Fibrin or plugs for extraction sites can then be formed, using either the internal plate or the piston assembly.



L-PRF™ matrix acts as a carrier for particulate bone material⁴. When incorporated, the graft material is suspended in the fibrin matrix and handling characteristics are dramatically improved.

Applications in Dental /Oral and Maxillofacial Surgical Sites

Including but not limited to:

- Bone defects⁵
- Extraction sockets^{1,4,5,6}
- Sinus and dental ridge augmentation^{4,5}
- Palatal defects⁷
- Maxillary bone atrophy^{1,5}

IntraSpin™ System is intended to be used for the safe and rapid preparation of autologous Platelet Rich Fibrin (PRF) from a small sample of blood taken at the patient's point of care. The PRF can be mixed with autograft and/or allograft bone prior to application to a bony defect for improving handling characteristics. It requires only one centrifugation without pipetting, mixing, heating or additives. Every component of the IntraSpin™ System has been specifically selected and engineered to act in concert as a graft delivery. IntraSpin™ System components have been FDA cleared and are optimized to ensure proper material biocompatibility and clinical performance.

A simple three-step processing protocol necessitates drawing blood, spinning blood and expressing the fibrin clot in the Xpression™ Fabrication Kit. The system is comprised of three product groups specifically designed for completing this processing protocol.



The Intra-Spin™ System includes the IntraSpin™ Centrifuge, the Blood Collection Material Kit and the Xpression™ Fabrication Kit. It is available with either one or two Xpression™ Fabrication Kits.

REFERENCE NO.	PRODUCT DESCRIPTION
ISS220	IntraSpin™ System Single, 110 volts (Includes Centrifuge, Blood Collection System & Tissue Regeneration Kits)
L_PRF_D	IntraSpin™ System Dual, 110 volts (Includes Centrifuge, Blood Collection System & 2 Tissue Regeneration Kits)
CTR	Expression™ Fabrication Box
LPRF 455385	Pack of 100 Vacuum Blood Collection Tubes
PRF450	24 Butterfly Blood Collection Sets

1 BLOOD COLLECTION MATERIAL

The Blood Sample Collection Set and materials have been selected for proper biocompatibility, collection and maintenance of the blood sample.

PRODUCT DESCRIPTION
Pack of 100 Vacuum Blood Collection Tubes
24 Butterfly Blood Collection Sets
Latex-Free Tourniquet



2 CENTRIFUGE



The IntraSpin™ Centrifuge has a specific configuration and set of dynamic parameters. It has been calibrated and tested to ensure separation of the blood into proper segments and consistencies for Platelet Rich Fibrin.



3 FABRICATION KIT & INSTRUMENTATION

The Tissue Regeneration Kit includes the Xpression™ Fabrication Kit which is engineered to optimize the final step in the fabrication of Platelet Rich Fibrin. The weighted press is designed to express serum from the fibrin clot in a controlled manner and to form thin compressed layer of Platelet Rich Fibrin of a consistent thickness. A piston and cylinder assembly is used for the creation of Platelet Rich Fibrin plugs. The kit and instrumentation is also designed to aid incorporating graft material within the Platelet Rich Fibrin matrix.

PRODUCT DESCRIPTION
Xpression™ Fabrication Box
Surgical Tissue Forceps
Surgical Curved Scissors
Round Stainless Steel Bowl
Rectangular Stainless Steel Bowl
Dual Biomaterial Carrier Spatula
Dual Biomaterial Packer
Test Tube Rack

