

MEDGENERX® – REGENERATIVE THERAPY OVERVIEW

MedGeneRx® is a professional line of FDA-cleared PRP regenerative solutions providing standardized biologic formulations and specialized equipment for clinical use. The system includes platelet-rich plasma (PRP), platelet-rich fibrin (PRF), and a dedicated centrifuge, supporting tissue repair, functional restoration, and optimized clinical outcomes in orthopedics, dermatology, sexual wellness, wound care, and aesthetic medicine.



PRODUCT OVERVIEW

The MedGeneRx® regenerative platform delivers high-quality, consistent biologic preparations and a versatile centrifuge designed for regenerative protocols. The formulations (PRP and PRF) provide concentrated autologous growth factors and fibrin matrices to promote cellular proliferation, angiogenesis, and tissue remodeling.

The companion RegenOMedix™ centrifuge ensures precise, reproducible preparation. The integrated system is intended for use by trained medical providers. It supports injection-based therapies, topical applications, and combination treatments with devices such as the NanoPen® FDA-cleared microneedling device or acoustic wave systems.

KEY SPECIFICATIONS & SYSTEM ADVANTAGES

- ⊕ **Platform Components:** Includes biologic formulations (PRP, PRF) and the RegenOMedix™ ZG-TD4B-01 centrifuge.
- ⊕ **Biologic Standardization:** Ensures consistent concentrations of platelets, growth factors, and fibrin for reproducible clinical effects.
- ⊕ **Centrifuge Versatility:** Compact, programmable unit compatible with multiple tube sizes (7mL, 15mL, 50mL) and rotor configurations for PRP/PRF/PRFM.
- ⊕ **Workflow Integration:** Designed for seamless use in clinical settings, supporting a wide range of regenerative applications.

MECHANISM OF ACTION

- ⊕ **Platelet-Rich Plasma (PRP):** An autologous concentration of platelets in a small volume of plasma. Upon activation, platelets release a defined cocktail of growth factors (PDGF, VEGF, TGF- β) and cytokines that:
 - Stimulate fibroblast and endothelial cell activity.
 - Promote angiogenesis and extracellular matrix (ECM) production.
 - Modulate local inflammation to optimize the tissue repair environment.
- ⊕ **510(k) equivalence study results:**
 - FDA-Cleared, Class II 510(k) Cleared.
 - Integrated Anticoagulant.
 - Simple 10-minute single-spin design.
 - Platelet Concentration Factor at 0 Hours = 4.1 – 4.5x baseline.
 - Platelet Recovery % at 1 Hour = 84%.
 - pH at 0 Hours = 7.5.
 - Platelet Activation (Stimulated ADP) at 0 Hours = 96.3%.
 - HCT at 0 Hours = 0.01%.
 - WBC at 0 Hours = 0.6.
 - Closed vacutainer system maintains sterility.



INDICATIONS & USE CASES

- **Orthopedic Repair:** Tendon/ligament injuries, joint osteoarthritis, and musculoskeletal pain.
- **Wound Healing:** Diabetic ulcers, pressure sores, and post-surgical wounds.
- **Aesthetic & Dermatologic:** Hair restoration, skin rejuvenation, and scar modulation (acne, surgical).
- **Surgical Adjunct:** Bone grafting, dental implantology, and plastic surgery recovery.
- **Combination Therapy:** Used with microneedling, acoustic wave therapy, or other regenerative devices to enhance delivery and efficacy.

KEY CENTRIFUGE TECHNICAL SPECIFICATIONS

1. RegenOMedix™ ZG-TD4B-01 Laboratory Centrifuge

A compact, programmable centrifuge engineered for consistent PRP, PRF, and PRFM preparation.

SPECIFICATION	DETAIL
Model	ZG-TD4B-01
Display	LCD with digital interface
Control	Programmable acceleration/braking; digital motor controller
Safety	Rotor imbalance sensor; automatic lid lock; transparent lid
Temperature Range	Operates from +10°C to +50°C
Rotor Options	Fixed-angle rotors for 6x7mL, 6x15mL, or 6x50mL tubes. Standard includes 4 x 50mL rotors with 15mL adapters.
Key Feature	Slow-stop function to preserve platelet integrity during PRP/PRF processing.

2. MedGeneRx® Biologic Formulations

- **PRP (Platelet-Rich Plasma):** Defined as an autologous concentrated preparation of platelets and their associated growth factors in a small volume of plasma.
- **PRF (Platelet-Rich Fibrin):** Defined as a fibrin matrix where platelet cytokines, growth factors, and cells are released over a specific period of time.



CLINICAL USE & PROTOCOL

- **Application:** All components are for professional clinical use only, administered or operated by trained medical providers.
- **Centrifuge Protocol:** Blood samples are processed using standardized, kit-specific protocols for time and RPM/RCF to ensure consistent biologic yield.
- **Biologic Administration:** PRP/PRF can be administered via injection, topically, or in combination with surgical procedures or device-based therapies.
- **Storage & Handling:** Adhere to standardized protocols for biologic preparation, handling, and administration. Centrifuge maintenance should follow manufacturer guidelines.



The MedGeneRx® platform and its components are intended for use by licensed healthcare professionals. They are not intended to treat systemic disease or serve as a standalone curative therapy.

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