

IR **ROTIUM[®] LO PRO**
Bioresorbable Wick

ELECTROSPUN SYNTHETIC SCAFFOLDS
FOR FOOT AND ANKLE APPLICATIONS



ATREON
ORTHOPEDICS

AUTOBIOLOGIC[™] SCAFFOLDS: POWERING THE HEALING RESPONSE

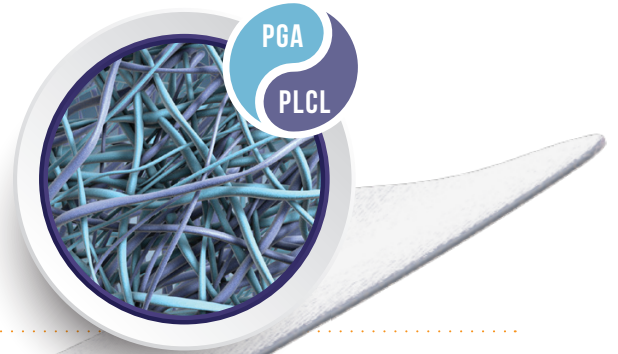
THE BIOLOGIC CHALLENGE IN TENDON HEALING

- Foot and ankle tendons experience high loads and limited vascularity, creating a challenging healing environment
- Healing often occurs through scar formation, compromising repair strength and functional outcomes

REDEFINING THE MICROENVIRONMENT

ROTIUM[®] Lo Pro is a low-profile bioresorbable scaffold for tendon repair and reconstruction designed to:

- Retain and concentrate native biologic factors at the repair site supporting tissue integration
- Accommodate wrapping or interpositional placement
- Streamline surgical technique while minimizing added bulk at the repair site



DESIGNED AS A SCAFFOLD

100% Synthetic Composition

- **PGA:** Polyglycolic acid
- **PLCL:** Poly(lactide-co-caprolactone)
- 85% porous structure

Bioresorbable

- Thickness: 0.45mm
- Biphasic resorption in 2-3 months

Electrospun Matrix Design

- Wicks and holds biology to kickstart cellular activity
- Mimics native ECM

SURGEON-DRIVEN ADVANTAGES



Low Profile Scaffold

- Thinner, flexible construct minimizing bulk for constrained anatomies
- Conforms to anatomy while maintaining its robust handling characteristics



Easy Intraoperative Handling

- No disposables or additional fixation required
- Supports trimming and suture fixation, if needed



Versatile

- Supports tendon wrapping, onlay, and inlay
- Adaptable across a wide range of tendon repair procedures



Reproducible Outcomes

- Supported by clinical and scientific data
- Delivers consistent, long-term healing outcomes

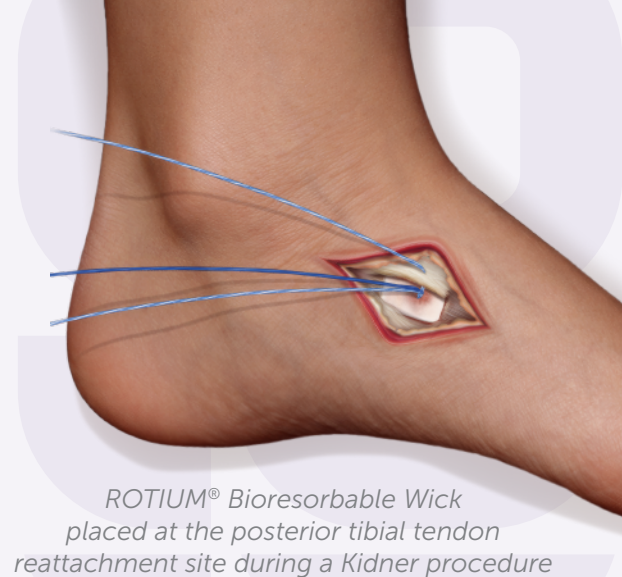
DESIGNED FOR VERSATILITY

Choose the scaffold that best fits the anatomy and repair.

ROTIUM® Lo Pro is optimized for low-profile tendon repair applications, while **ROTIUM® Bioresorbable Wick** supports tendon–bone healing where interpositional placement is desired.

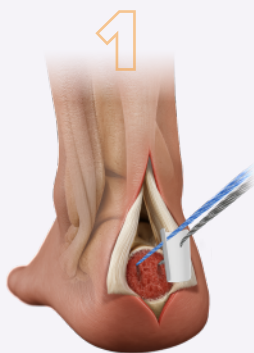
Common Applications Include:

- Achilles Tendon Repair (Mid-substance and Haglund’s deformity)
- Peroneal Tendon Repair
- Posterior Tibial Tendon Repair
- Kidner Procedure
- FHL Tendon Transfer
- Capsular Closure



ROTIUM® Bioresorbable Wick placed at the posterior tibial tendon reattachment site during a Kidner procedure

CLINICAL APPLICATION EXAMPLES



Pass suture through scaffold and slide down sutures toward repair site



Position on the repair footprint and allow scaffold to wick



Complete repair with tendon over **ROTIUM®**



Position **ROTIUM®** on or around the tendon and suture in place



INLAY APPLICATION

WRAP APPLICATION

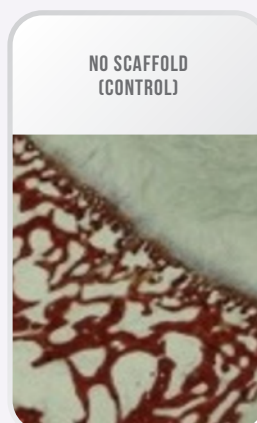
IMPROVED HEALING

Sheep CSU Study (JSES, 2022)³

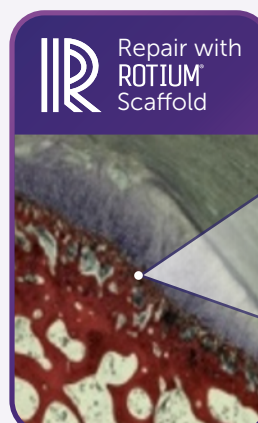
- Formation of Sharpey’s-like fibers at the tendon–bone interface
- Development of a remodeled enthesis with similar characteristics to native tissue



Winner of the 2023 Neviasser Award for Basic Science (ASES & JSES)



NO SCAFFOLD (CONTROL)



Repair with **ROTIUM®** Scaffold



Healing with scar tissue vs. healthy bone–tendon integration

VITAL ROLE OF BIOACTIVE DEGRADANTS

Biphasic resorption of PGA and PLCL releases bioactive degradants that fuel cellular activity, stimulate a low-pH microenvironment, and promote tendon healing & tissue remodeling:

Glycolic Acid^{6,7,9}

- Modulates inflammation
- Promotes fibroblast proliferation & collagen expression

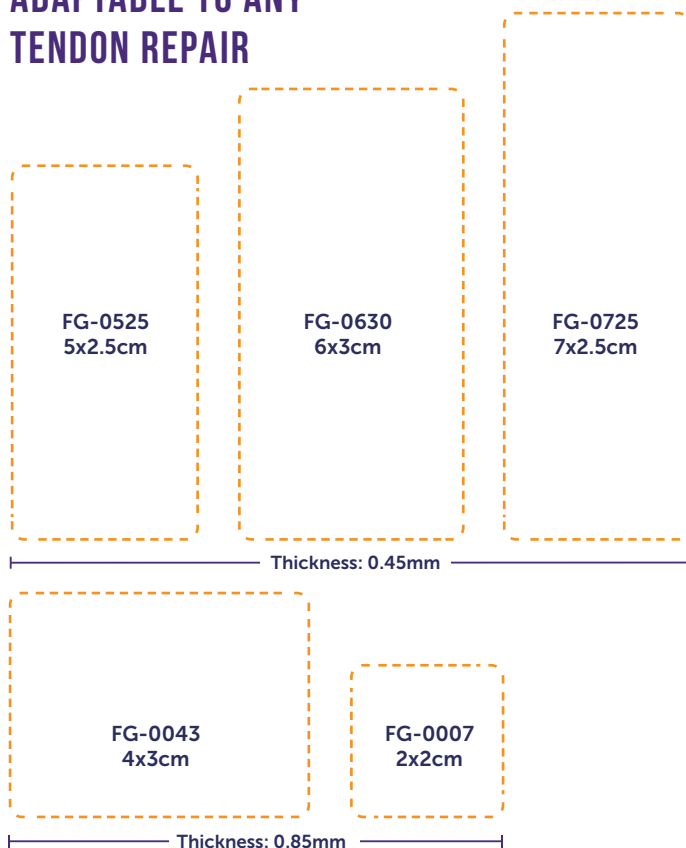
Lactic Acid^{8,10}

- Stimulates VEGF expression & enhances cellular migration
- Promotes angiogenesis & ECM deposition

Caproic Acid⁷

- Addresses microbial contaminants
- Modulates inflammation

ADAPTABLE TO ANY TENDON REPAIR



FDA 510(k) Clearance: ROTIUM® Lo Pro Bioresorbable Wick is indicated for the management and protection of tendon injuries in which there has been no substantial loss of tendon tissue.

No special storage requirements. Recommended storage in original packaging, preferably in a cool and dry place.

REFERENCES:

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⊠ All claims supported by data on file.

* Please refer to the IFU for a complete list of compatible anchors.

§ References available upon request

CONTACT YOUR ATREON REPRESENTATIVE FOR MORE INFORMATION OR VISIT

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