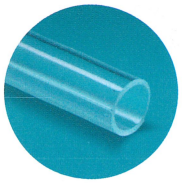


NEUROLAC®

Synthetic, Bioresorbable and Safe

- Peripheral Nerve Repair

Tussen 8°C en
-18°C bewaren

POLYGANICS

Bioresorbable Medical Devices

NEUROLAC® TW

Transparent and Easy-to-use

NEUROLAC® and NEUROLAC® TW synthetic and transparent nerve guides

NEUROLAC® TW is the thin-wall version of our unique transparent NEUROLAC® nerve tube concept. NEUROLAC® TW has a wall thickness that is 40% less than the current NEUROLAC® conduits, making it even easier to suture. NEUROLAC® TW thus offers high flexibility, easy and comfortable suturing.

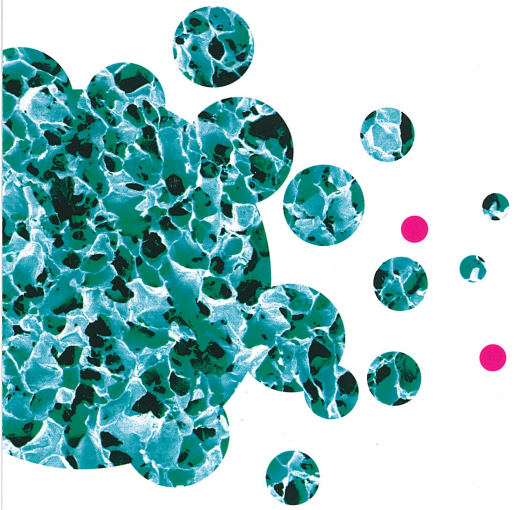
User friendly

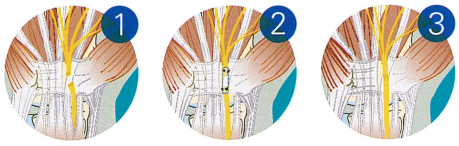
NEUROLAC® and NEUROLAC® TW Nerve Guides are indicated for reconstruction of a peripheral nerve discontinuity up to 20 mm in patients with a complete division of a peripheral nerve.
NEUROLAC® and NEUROLAC® TW provide guidance and protection to regenerated axons and prevent ingrowth of fibrous tissue into the nerve gap during nerve regeneration from the proximal to the distal nerve stump of the transected nerve.
Tension-less nerve repair offers optimal nerve healing. There is no need for autologous transplants which eliminates donor site morbidity. NEUROLAC® and NEUROLAC® TW are designed to prevent kinking and collapse and early flexion of joints is feasible.

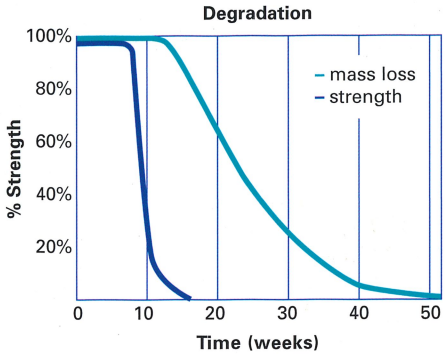
NEUROLAC® performs similar to an autograft, has the added benefits of a conduit, and outperforms Neuragen in functional recovery.[1] In a randomized, multicenter study comparing NEUROLAC® to end-to-end repair and autologous grafting it was proven that NEUROLAC® was safe and suitable for the repair of transected peripeheral nerves on the hand.[2]

Bioresorbable

NEUROLAC® and NEUROLAC® TW are made of 100% synthetic material and are 100% biologically safe. They are non-immunogenic, in contrast to collagen based nerve tubes.







Degradation of NEUROLAC® and NEUROLAC® TW Nerve Tube occurs through hydrolysis leading to gradual reduction of molecular weight. NEUROLAC® and NEUROLAC® TW retain their initial mechanical properties up to 10 weeks providing support and protection to the healing nerve. After this period, rapid loss of mechanical strength and gradual reduction in mass occurs. The final degraded products, are resorbed, metabolized and excreted by the body. These degradation products are less acidic, which, in contrast to nerve tubes of polyglycolid (PGA) origin, is favorable for the surrounding tissue.
Studies show that NEUROLAC® is resorbed within 24 months.[2]

1. Brian A. Crum, Allen T. Bishop, and Alexander Y. Shin. Treatment of a Segmental Nerve Defect in the Rat with Use of Bioabsorbable Synthetic Nerve Conduits: A Comparison of Commercially Available Conduits. J Bone Joint Surg Am. 2009;91:2194-2204.
2. Bertleff M, Meek M, Nicolai J; A Prospective Clinical Evaluation of Biodegradable Neurolac Nerve Guides for Sensory Nerve Repair in the Hand, The Journal of Hand Surgery, May 2005, Vol. 30A/No. 3, 513-518.

Flexibility

NEUROLAC® TW is available in 4 different internal diameters (1.5 - 3.0 mm).
These are the smallest diameters for small nerves which need easy sutering.
NEUROLAC® is available in 6 formats (4.0 - 10.0 mm), facilitating entubulation where a thin-wall is not mandatory.

Please contact your local NEUROLAC® representative for more information

J.B. Implants Services bv
Robijnborch 7
5241 LK Rosmalen
www.jb-implants.nl
T 073 52 20780
F 073 52 21245
E info@jb-implants.nl

The standard length of 30 mm neatly covers the indication for reconstruction of complete peripheral nerve divisions up to 20 mm. NEUROLAC® and NEUROLAC® TW: an excellent combination of nerve regeneration tubes. **Flexibility at its best**

Benefits

- Fully synthetic, biologically inert and clinically proven to be safe.
- High transparency enables optimal positioning of nerve ends and detection of blood clots.
- Mechanical properties retain up to 10 weeks enabling optimal support and protection for the healing nerve.
- Fully resorbs within 24 months, no removal needed.
- Thin wall allows easy suturing of (even the smallest) nerve stumps
- Prevents ingrowth of fibrous tissue
- Ideal for tension-less nerve repair
- Retains its form to prevent kinking and collapse.

NEUROLAC® TW Product Description

Article number	Internal diameter	Length
NG02-015/03	1.5 mm	3 cm
NG02-020/03	2.0 mm	3 cm
NG02-025/03	2.5 mm	3 cm
NG02-030/03	3.0 mm	3 cm

NEUROLAC® Product Description

Article number	Internal diameter	Length
NG01-040/03	4.0 mm	3 cm
NG01-050/03	5.0 mm	3 cm
NG01-060/03	6.0 mm	3 cm
NG01-070/03	7.0 mm	3 cm
NG01-080/03	8.0 mm	3 cm
NG01-100/03	10.0 mm	3 cm

All NEUROLAC®/NEUROLAC® TW products are available in boxes of 1 unit.
Store NEUROLAC®/NEUROLAC® TW at or below 4°C (39,2°F).
NEUROLAC®/NEUROLAC® TW Shelf life is 42 months.

NEUROLAC® and NEUROLAC® TW are CE-approved under CE 0344.
NEUROLAC® is filed at the FDA under number K032115 (1.5-3.0mm) and K050573 (4.0-10mm).
NEUROLAC® TW is filed at the FDA under number K12626 (1.5-3.0mm)

Polyganics - Rozenburglaan 15A, 9727 DL Groningen, The Netherlands
T +31 (0)50 588 65 88 - F +31 (0)50 588 65 99 - sales@polyganics.com - www.polyganics.com

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