It is important to immerse Reaxon® tubes in normal saline (0.9% NaCl) for 10 minutes in order to hydrate.

The diameters indicated are those for dry tubes. After hydration the diameter increases slightly (from 0.1 to 0.4 mm approximately).

Indicated for total nerve ruptures, two versions of Reaxon® tubes are available.

## REAXON® NERVE GUIDE

**with loss of substance up to 26 mm**

Reaxon® Nerve Guide is CE marked. It is available in the following dimensions:

| Reference | Internal diameter | Length |
|---|---|---|
| RG321 | 2.1 mm | 30 mm |
| RG330 | 3.0 mm | 30 mm |
| RG340 | 4.0 mm | 30 mm |
| RG350 | 5.0 mm | 30 mm |
| RG360 | 6.0 mm | 30 mm |

Reaxon® Nerve Guide is a sterile individually-packaged product.

## REAXON® DIRECT

**with no loss of substance**

Reaxon® Direct is CE marked. It is available in the following dimensions:

| Reference | Internal diameter | Length |
|---|---|---|
| RD121 | 2.1 mm | 14 mm |
| RD130 | 3.0 mm | 14 mm |
| RD140 | 4.0 mm | 14 mm |
| RD150 | 5.0 mm | 14 mm |
| RD160 | 6.0 mm | 14 mm |

Reaxon® Direct is a sterile individually-packaged product.

KeriMedical


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CE 0481


Reaxon® Direct and Reaxon® Nerve Guide are intended for the repair of peripheral nerve lesions in patients suffering from total nerve ruptures. Class III. Read the instructions in the leaflet carefully. Manufactured by: Medovent GmbH Friedrich-Koening-Str.3 55129 Mainz - Germany - mail@medovent.com. Compiled on February 8, 2018. DR-3A-012.02_En


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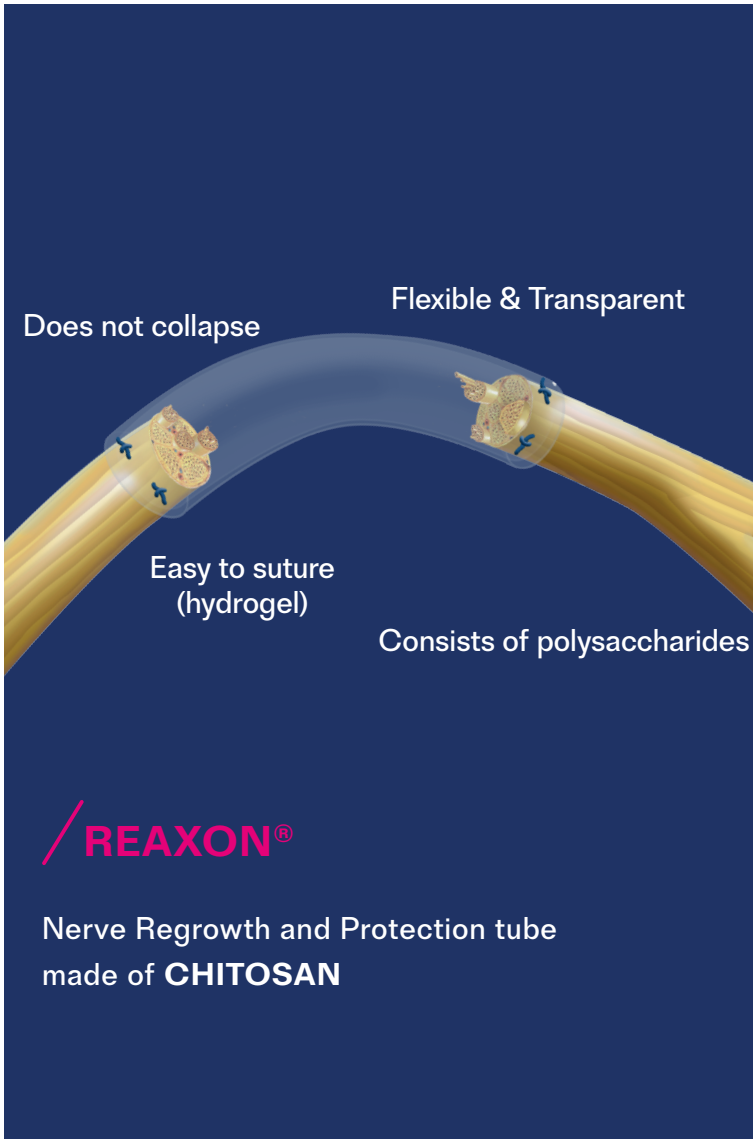
Fully committed to Hand & Wrist only




# REAXON®

Nerve Regrowth and Protection tube
made of **CHITOSAN**

REAXON® NERVE GUIDE

KeriMedical

REAXON® NERVE GUIDE

## CHITOSAN

Chitosan is the principal constituent of Reaxon® tubes

Chitosan consists of **deacetylated** chitin

The chitin used in the production of **Reaxon®** tubes is of natural origin

Chitosan is a **polysaccharide**, not a protein

## Properties of Chitosan (%DA ≈ 5%)

The properties of Chitosan are directly related to the percentage of deacetylation

Reaxon® tubes are:

**- Biodegradable:** Reaxon® degrades to compounds that can be metabolized by the body [1]

**- Bioactive:** Reaxon® stimulates the growth of nerve cells [2]

**- Biocompatible:** Reaxon® does not induce any immune response [3]

**- Antiadherent**: Reaxon® limits the formation of scar tissue [4]

**- Antifungal, antibacterial** [5]

**- Hemostatic** [1]

## Properties of Reaxon® Chitosan (%DA ≈ 5%) tubes

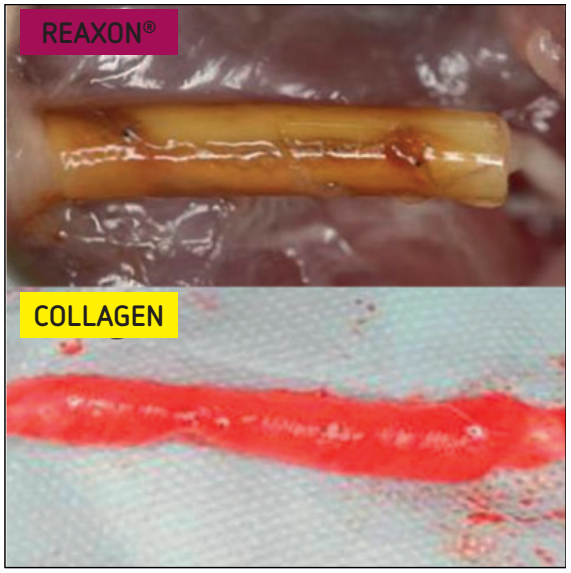
**- Good tube integrity for 18 months (Approximately 2.5 years for resorption)**

**- Flexible & Transparent**
Easy suturing (Ethilon 9-0)

**- Hydrogel**
Reaxon® enables nutrient and gas exchanges while acting as a barrier to cells [6]

**- Not collapsing**

**- Reaxon® promotes nerve regrowth**




[1] Croisier F, Jérôme C. Chitosan-based biomaterials for tissue engineering. European Polymer Journal. avr 2013;49(4):780-92.
[2] Haastert-Talini et al. Chitosan tubes of varying degrees of acetylation for bridging peripheral nerve defects. Biomaterials 2013; 34: 9886-9904.
[3] The biocompatibility of Reaxon® Nerve Guide has been proven in accordance with the ISO 10993 standards.
[4] Marcol et al. Reduction of post-traumatic neuroma and epineural scar formation in rat sciatic nerve by application of microcrystallic chitosan. Microsurgery 2011; 31: 642-649.
[5] Rabea et al. Chitosan as antimicrobial agent: application and mode of action. Biomacromolecules 2003; 4: 1457-1465.
[6] Freier et al. Chitin-based tubes for tissue engineering in the nervous system. Biomaterials 2005; 26: 6424-6432.