REAXON® NERVE GUIDE
NERVE CONDUIT MADE OF CHITOSAN
Chitosan is made from chitin which can be found in nature in the exoskeleton of arthropods.

**REAXON® NERVE GUIDE – CHITOSAN FOR ACTIVE NERVE REGENERATION**

Chitosan Properties:

- Bioactive – supports nerve regeneration equivalent to the autograft
- Antiadhesive – inhibits scar tissue and neuroma formation
- Antibacterial – limits or prevents infection
- Biocompatible – prevents irritation and inflammation
- Hydrogel – facilitates the transport of nutrients and oxygen

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4. The biocompatibility of Reaxon® Nerve Guide has been proven in accordance with the ISO 10993 standards.
Reaxon® Nerve Guide is a flexible, long-term stable nerve guide that actively guides the sprouting nerve fibers and inhibits the ingrowth of fibroblastic tissue and scar formation. The transparent hydrogel wall supports the transport of nutrients and oxygen to the regenerating nerve. Reaxon® Nerve Guide provides an optimal environment for the vitality and the growth of Schwann cells.

Benefits of Reaxon® Nerve Guide in comparison to the use of autografts:

- Preserves the functionality at the donor site
- Saves operation time
- Enables nerve repair without delay
- Prevents donor site morbidity
Extensive animal testings have confirmed that Reaxon® Nerve Guide is as effective as the autologous nerve graft, the current gold standard.

Results of the standard model:

- Reaxon® Nerve Guide and the autologous nerve graft are comparable in the Functional Sciatic Index, Somato-Sensory-Evoked Potential and Compound Muscle Action Potential
- Reaxon® Nerve Guide supports axonal regrowth to a similar extent and a similar thickness of the myelin layer at the proximal and distal stumps of the sciatic nerve compared to the autologous nerve graft
- The regrowth of the nerve tissue inside Reaxon® Nerve Guide can be followed by ultrasonography

Histology: No statistically significant difference was detected between the Reaxon® Nerve Guide and the autograft groups.

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Reaxon® Nerve Guide is designed to repair peripheral nerve injuries up to a nerve defect length of 26 mm. Reaxon® Nerve Guide protects the growing nerve against undesirable external influences and facilitates the transport of nutrients and oxygen due to its hydrogel properties.

Use:

1. Choose a Reaxon® Nerve Guide with a sufficiently large inner diameter. Hydrate Reaxon® Nerve Guide for a minimum of 10 minutes in sterile saline solution and if necessary, shorten the nerve guide to the required length.

2. Place the first suture using non-absorbable monofilament suture material (USP 8-0 sutures are recommended).


4. Connect the other nerve stump to the Reaxon® Nerve Guide and fill the inside of the nerve guide with sterile saline solution.
Reaxon® Nerve Guide has been developed by the medical technology company Medovent GmbH, located in Mainz/Germany, and is produced in the company’s clean room facilities in accordance with the international standard DIN EN ISO 13485.

Since its founding in 2006, Medovent has been focused on the development of medical devices based on chitosan and is the global leader in processing this innovative biopolymer.

Reaxon® Nerve Guide is CE-certified and is supplied in the following dimensions:

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<th>Catalog Number</th>
<th>Inner Diameter</th>
<th>Length</th>
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</tbody>
</table>

Reaxon® Nerve Guide is a sterile product and is packed individually.

Customer Service Tel.: +49 (0) 6131 61769 20

Reaxon® Nerve Guide manufactured by:
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