iRES complete solutions for oral surgery

# Regenerative Products

Catalog

# an eye **for details**

iRES® develops, manufactures and distributes biomaterials for bone and tissue regeneration, and oral and maxillofacial surgery. Our mission is to keep people at the heart of our work, combining meticulous attention to detail and ongoing research into safe and innovative new products of the highest quality that offer real value in terms of quality and price.

FIXLITE

# An innovative system that combines **diode lasers (hllt) and a photoactive solution**

**01)** FixLite® stimulates an antimicrobial reaction by combining two products, a diode laser and a photoactive solution.

**02)** FixLite® was developed for the detoxification and biostimulation of gingival and osseous tissues.

**03)** FixLite® is designed to be simple enough for everyday use in the treatment of mucositis, gingivitis, peri-implantitis, periodontitis and abscesses, for improving the safety of the post-extraction implant process, for managing secondary intention surgical wound closure, for cleaning the alveoli, for assisting the regeneration of both hard and soft tissues, and for managing surgical complications caused by bacterial inflammation.

**04)** FixLite® has been designed to be ready to use immediately upon supply and is intended for decontamination, regeneration, peri-implantitis, and medium and light biostimulation.

**05)** The FixLite® system can be preset for specific functions thanks to the programmes and rigid protocols loaded into the system. Furthermore, it is effective on all tissue types and implant surfaces.

**06)** FixLite® is also supplied ready for use in soft-tissue surgery, endodontics, whitening and various other treatments.

**What's in the box?**

- Compact laser unit 14 cm (l) x 15 cm (h) x 24cm (d)
- Laser transmission fibre integrated with handpiece
- Control pedal
- 3 pairs of safety glasses
- External mains power adaptor
- 1 USB cable
- 1 tip bender
- 1 pack of 4 x 400-micron interchangeable single-use tips
- 1 user's manual

**Features:**

- Compact laser unit 14 cm (l) x 15 cm (h) x 24cm (d) with 4.3 "color chart" screen
- Interchangeable tips
- Multi-tip handpiece
- USB port

• Customised software featuring five preset clinical programmes for treating: 1. Peri-implantitis 2. Regeneration 3. Periodontal decontamination 4. Light biostimulation 5. Medium biostimulation

**The solution:**
FixLite® biostimulation solution has been PATENTED. An innovative solution with anti-microbial and biostimulation properties. FixLite®'s precise patented formula is an industrial secret.

**Solution packages:**
The solution is supplied in 4 strips, each containing 5 single-use 1.5-ml phials. On average, one strip is sufficient for complete treatment of one patient.

**The patented FixLite® technique:**
01) An example of PHOTODYNAMIC THERAPY, which is to say the deactivation of cells, microorganisms or molecules using HIGH INTENSITY light (HLLT – High Level Laser Therapy), rather than heat, employing a DIODE laser to achieve deep penetration of tissues.
02) Using this laser in combination with the patented solution enables: 2a) maximal penetration; the wavelengths used can penetrate up to 2 cm into gingival and osseous tissues. 2b) the avoidance of thermal effects, due to a low average power. 2c) effective ANTIMICROBIAL action and BIOSTIMULATION of tissues thanks to the properties of the patented solution. 2d) the production of singlet oxygen thanks to the use of high frequencies.
03) It is a well-documented technique that has been used in the dental sector for more than 15 years.
04) For the treatment of PERI-IMPLANTITIS, PERIODONTITIS, BONE REGENERATION and ENHANCED BIOSTIMULATION of tissue.

**Benefits of FixLite®:**
01) The DIODE laser stimulates detoxification, microbe elimination and biostimulation processes, even at depth.
02) HLLT therapy guarantees elevated levels of tissue decontamination compared to the superficial effects of the LLLT (Low Level Laser Therapy) currently on the market.
03) FixLite® solution is highly effective for three reasons: 3a) it is transparent, and does not impede the effects of the laser. 3b) it produces antimicrobial effects and detoxifies without the use of a colouring agent. 3c) it penetrates deeply, achieving enhanced levels of detoxification.
04) The system is safe and follows preset protocols based on 15 years of documented use.
05) Free, specialised training for medical practitioners.

**For the treatment and cure of:**
Peri-implantitis | Periodontitis | Mucositis | Abscesses | Gingivitis. Also for use in: detoxification prior to surgery; anti-microbial protection following cyst removal; biostimulation of tissues to promote regeneration.

**Comparisons with our competitors:**
01) FixLite® uses photodynamic HLLT (High Level Laser Therapy). Other commercially available lasers employ photodynamic LLLT (Low Level Light Therapy).
02) FixLite® uses a diode laser in combination with a patented solution that acts on bacteria within the tissue, whether a colouring agent has been used or not. Other commercially available laser systems require the use of colouring agents. These (our main competitors) have been shown to be relatively ineffective because they eliminate only those bacteria that are coloured by the solution, and/or those struck directly by the laser, meaning they are effective only on superficial layers and not deep within the tissue.
03) The efficacy of the FixLite® is not compromised by the presence of air pockets during treatment.
04) Treatment is faster than the long processes involved in applying competing treatment products.

# Descriptions, codes, **prices**

| Code | Price |
|---|---|
| Complete FixLite | 8.500,$^{00}$ € |
| FixLite Solutions | 120,$^{00}$ € |
| FixLite Tips | 50,$^{00}$ € |

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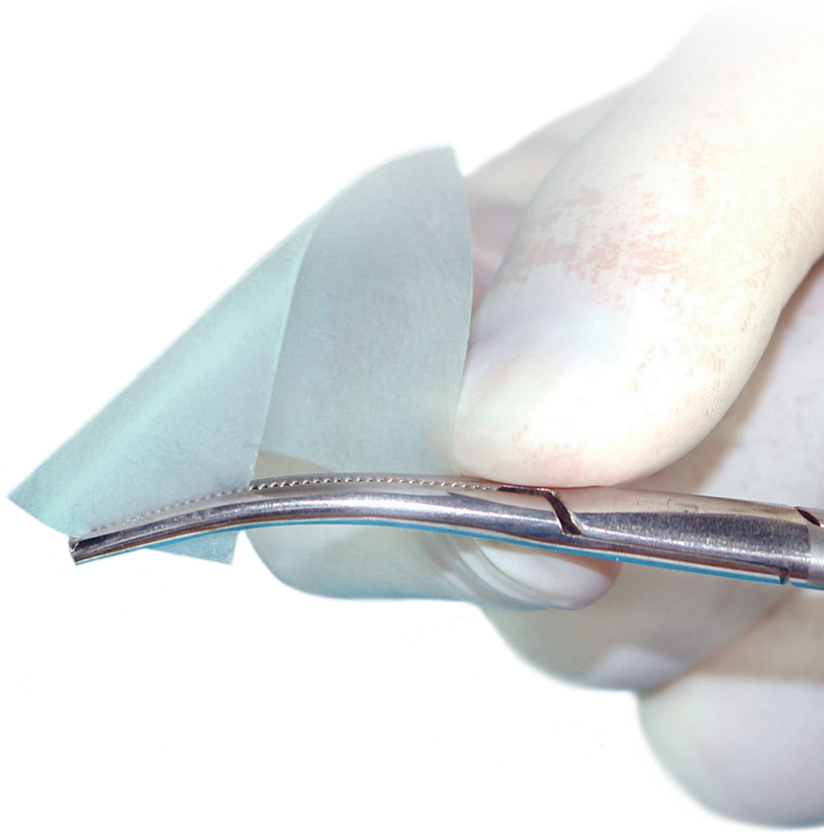
## COLLAGUIDE®

Membrane to be used for
applications:
GBR (Guided Bone Regeneration)
GTR (Guided Tissue Regeneration)

# Unique resorbable collagen membrane **translucent, resilient, flexible**



**CollaGuide®** is manufactured from Type 12i bovine collagen with no chemical cross-linking creating an excellent healing environment. It is free of any additional chemicals. These properties promote healing and consistent resorption. (Wang H. Carroll W. Guided bone regeneration using bone grafts and collagen membranes. Quintessence International. 32, 2001; 504-515.)

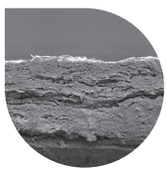
**Translucent**
Easy to piace! For the first time any bone graft is visible. Ability to check at any time.

**Resilient and flexible**
Easy to handle! When hydrated, the membrane is easy to handle, can be cut to size, flexible and easy to piace. If needed, CollaGuide® can be fixed with sutures or tacks.

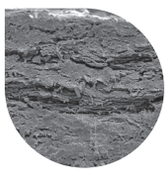
**Resorbable**
Second surgery unnecessary to remove membrane. As the barrier resorbs, a matrix is created that allows fibroblast infiltration and cellular attachment.

Collaguide® membrane can be applied with any bone substitute material or bone formation on the market. It is recommended to use the bone formation material Cerasorb®.

**Dimensions disponibili:**
15x20 mm | 20x30 mm | 30x40mm



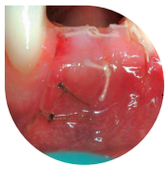
Its dense fibrous structure creates a porosity designed to retard epithelial downgrowth and prevent gingiva connective celi migration into the wound site.



As the barrier resorbs, fibrils that make up the membrane separate, creating a matrix that allows fibroblast infiltration and cellular attachment.

Collaguide® membrane cropped

Before closing. You can see the graft through the membrane



Two weeks after surgery

Collaguide® it's available in three different size:
Collaguide® 15 x 20 mm
Collaguide® 20 x 30 mm
Collaguide® 30 x 40 mm

## Descriptions, code, **prices**

| Code | Dimensions | Quantity | Price |
|---|---|---|---|
| 6000141 | 15 x 20 mm | 1 | 107,00 € |
| 6000142 | 20 x 30 mm | 1 | 120,00 € |
| 6000143 | 30 x 40 mm | 1 | 186,00 € |

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## OSGIDE®

Membrane to be used for applications:
GBR (Guided Bone Regeneration)
GTR (Guided Tissue Regeneration)

# The membrane of choice in **guided tissue regeneration and guided bone regeneration**

**Osgide®** is a bioresorbable barrier membrane for use in guided tissue regeneration (GTR) and guided bone regeneration (GBR).
The resorbable Osgide® membrane is used as protec-tion for bone replacement material to assist bone regeneration for periodontal bone defects and bone augmentation. Osgide® is a highly pure membrane that is manufactured from porcine raw materials under controlled and standardised processes and consists of a fibre network of collagen and elastin.
The membrane creates a protected environment for bone regeneration in the defect area, by presenting a barrier against the migration of soft tissue and assists the ingrowth of osteogenic cells in the bone defect. The fibre network of Osgide® prevents the migration of bone replacement material and provides mechanical stability in the region to be reconstructed.

## Descriptions, code, **prices**

| Code | Dimensions | Quantity | Price |
|---|---|---|---|
| 9000701520 | 15x20 mm | 1 | 115,$^{00}$ € |
| 9000702530 | 25x30 mm | 1 | 140,$^{00}$ € |
| 9000703040 | 30x40 mm | 1 | 195,$^{00}$ € |

**Benefits of Osgide®**

The **Osgide®** membrane has the following benefits as a result of sophisticated technical manufacturing processes:

- High therapeutic safety due to reliable barrier function
- Excellent biocompatibility and cell compatibility
- Very good plasticity
- High tensile strength
- Ideal combination with different bone replace-ment materials
- Simple and reliable application

**Crucial a dependable barrier function!**

**Osgide®** is a bioresorbable membrane so that a second surgical procedure to remove the membrane is not required. The stability compared with degrada-tion is of great importance for resorbable membranes. Many studies show that the barrier function is often only guaranteed for a relatively short time for non-cross-linked collagen membranes and can vary widely.
For this reason, great importance was attached to reproducible high stability during the development of Osgide® where good tissue integration and vascularisation of the non-cross-linked membrane are preserved. Due to the slowed biodegradation of Osgide®, the barrier function of the membrane is not interrupted prematurely and is preserved for more than 12 weeks. This was shown in comparative studies with other non-cross-linked membranes.

**Excellent handling**

**Osgide®** is also safe and easy to handle in a wet state. It is characterised by simple and universal handling and can be cut with scissors or a scalpel to the size of the defect. Depending on the size, several small defects can be treated with one membrane. Due to the high stability, it does not break. It does not stick and ideally adapts to the tissue and bone replacement material used. As a result, you save valuable time!

**The use of membranes for bone aug-mentation**

The use of barrier membranes has become the clinical standard for GTR and GBR procedures. To achieve a safe treatment success in bone augmen-tation, professional societies recommend the use of barrier membranes in combination with bone repla-cement materials.
Scientific studies show that more bone is formed the bone regeneration process and the implant survival rate increases when membranes are used. In the USA, the Food and Drug Administration (FDA) recommends that suitable membranes are to be used for bone development to prevent the migration of bone replacement materials.

**What happens when osgide® is resorbed?**

**Osgide®** is initially integrated in the surrounding tissue and resorbed by the body‘s own processes. No toxic degradation products are released during this resorption process.
It does not result in the release of contaminants such as cross-linked substances or pH value changes that are observed for synthetic polymer membranes.

**Is osgide® chemically cross-linked?**

No, chemical cross-linking was entirely dispensed with Osgide®. In the literature, strong chemical cross-linking is associated with an increased incidence of dehiscence.

**Is there a risk of confusion of the membrane sides during application?**

No, Osgide® has two different sides which can not be confused. The smooth side should be positioned towards the mucosa in order to assist soft tissue healing and to avoid migration in the augmentation (GTR).
The rough side facing the bone serves as a guide for the osteoblasts in the GBR and enables rapid development of the bone graft.

**Does osgide® has to be rehydrated be-fore use or even washed?**

No, Osgide® is very hydrophilic and wets in a few seconds. Osgide® is not cross-linked. For this reason, it does not contain potential toxic residues that could result from a chemical cross-linking process.

**Should osgide® only be combined with certain bone replacement materials?**

**Osgide®** can be combined with all commercially available bone replacement materials and autologous bone. To gain a stable implant location, the combina-tion with Osbone® bone replacement material can be recommended.

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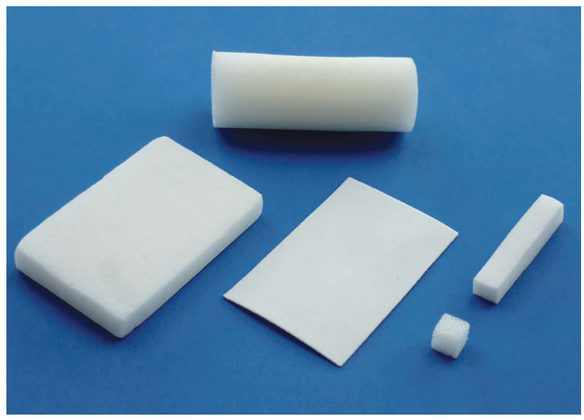
## STYPRO®

Technologically advanced biomaterial



# Implantable resorbable gelatine sponge **for instant haemostatic control**

**Stypro® haemostatic sponge**
Topical haemostat for complete haemostasis. Technologically advanced biomaterial. An implantable, resorbable, gelatine sponge for instant management of haemocoagulation, the first step towards successful tissue repair and natural wound healing. **Stypro®** is an EC-certified Class III medical device and, as such, compliant with the Medical Device Directive 93/42 EEC. **Stypro®** is a gelatine sponge of porcine origin used in surgery when conventional procedures prove ineffective or impractical for management of haemostasis. **Stypro®** promotes the aggregation of platelets, accelerating the process of coagulation. Components within the blood interact with the large surface area of the sponge, impregnating its porous structure and activating the natural process of platelet adhesion and the consequent process of coagulation

**Stypro®**: displays excellent shape retention; is easy to mould and shape; is implantable and completely resorbable; is free from porcine endogenous retroviruses; is useful in procedures for tissue repair; is soft and malleable; can be used dry or impregnated with sterile saline solution; is completely resorbed within three weeks.

**Stypro®**: absorbs elevated quantities of liquid (up to 50 times its weight); is free from any known risk of TSE transmission; demonstrates a rapid haemostatic effect (without the addition of exogenous thrombin); exhibits optimal porosity which improves interconnectivity; exhibits excellent tolerance and biocompatibility.

Store Stypro® between +10°C and +25°C. Ensure packaging is not damaged and use immediately after opening. The product must not be resterilised. Use Stypro® under sterile conditions in a controlled environment.

## Descriptions, code, **prices**

| Code | Dimensions | Quantity | Price |
|---|---|---|---|
| 9310000030 | 10x10x10 mm | 30 | 30,$^{00}$ € |
| 9360000005 | 50x10x10 mm | 5 | 27,$^{00}$ € |

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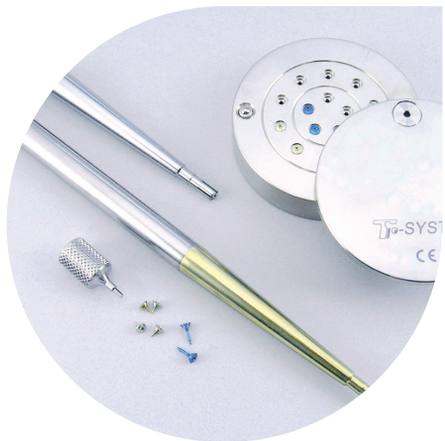
Ti-SYSTEM

The Ti-System set includes:
10 x 3-mm pins and 5 x 5-mm pins; 1 pin setting instrument with titanium tip; 1 Steribox for the pins; hexagonal key.



# Fixation system **non resorbable titanium pins**

**Ti-System** is a fixation system for foil and membranes. The titanium pins combine all the handling benefits of tack fixation with the advantages of screw systems. The pins can be set in the bone quickly but safely and precisely, without pre-drilling. They can subsequently be removed quickly and gently using the hexagonal key supplied. The screw thread under the head and the perfectly engineered fit with the key make the entire process straightforward. **Ti-System** offers a simple and convenient method for rapid, safe fixation of foils and membranes used in bone regeneration surgery and their subsequent removal.

**The pins** (which are made of grade 5 titanium alloy) are available in two lengths: 3 mm, for use in normal bone, and 5 mm for use in particularly soft bone tissue. The pins are subjected to electrochemical passivation, which renders them completely bioelectrically neutral and thus able to assist with the healing and regeneration of the bone without causing irritation.

The supplied **Steribox** is an important component of the **Ti-System** kit. It is used both for storing the instruments and in the sterilisation process. All **Ti-System** components can be ordered separately: both sizes of pin (3 mm or 5 mm) are available in packages of 5 or 10.

| Code | Description | Q.ty | Price |
|---|---|---|---|
| 6000161 | Titanium pin-setting | 1 | 55,00 € |
| 6000162 | Steel pin-setting | 1 | 45,00 € |
| 6000163 | Handle for pin-setting instruments | 1 | 50,00 € |
| 6000164 | Extraction key | 1 | 45,00 € |
| 6000165 | Container for pin | 1 | 130,00 € |

| Code | Description | Q.ty | Price |
|---|---|---|---|
| 6000166 | 3-mm titanium pin | 5 | 75,00 € |
| 6000167 | 3-mm titanium pin | 10 | 150,00 € |
| 6000168 | 5-mm titanium pin | 5 | 75,00 € |
| 6000169 | 5-mm titanium pin | 10 | 150,00 € |

| | | | |
|---|---|---|---|
| 6000170 | Complete kit comprising: 6000161, , 162, 163, 164, and 165 and 15 pins of the client's choice from 3mm and 5mm dimesions | 1 | 505,00 € |

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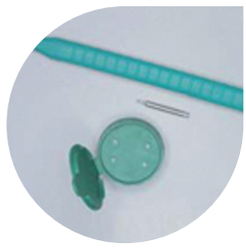
INION

The tack set includes:
4 x Inion tacks
1 x single-use applicator in plastic
1 x reusable drill in stainless steel



# Resorbable inion **tacks**

A simple, quick and safe fixation system for all forms of membrane used in bone-augmentation surgery. The Inion tacks are particularly easy to remove and can be inserted easily and safely by applying slight pressure to the single-use applicator included with the tack set. The stainless-steel drill, also included, achieves optimal insertion depth. The drill can be sterilised and is therefore reusable. The synthetic tacks are made from L-lactic acid, D-lactic acid, and trimethylene carbonate. The heads exhibit excellent flexibility and the tacks are completely resorbable. They are particularly indicated for the fixation of resorbable membranes.

Naturally, a reusable, stainless-steel applicator is also available. The tacks can be purchased separately in packets of four.

## Descriptions, code, **prices**

| Code | Description | Q.ty | Price |
|---|---|---|---|
| 6000171 | Inion tacks set (applicator + 4 tacks) | 1 | 150,$^{00}$ € |
| 6000172 | Inion tacks (4 tacks) | 1 | 125,$^{00}$ € |

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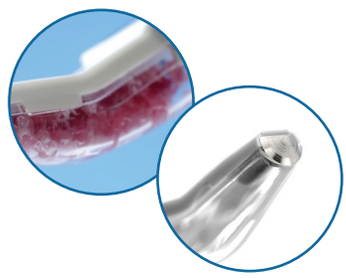
Safescraper®

# The gold standard in **intraoral bone harvesting**



Safescraper TWIST provides an easy method to obtain ideal autologous cortical bone for grafts in any type

of defects with a minimally invasive technique.

Easy to use

Safescraper TWIST makes autologous bone always available in any condition, both for small and large harvests. The exclusive cutting performance of the blade allows cortical shavings to be collected, while preserving maximum cell vitality, which is essential for graft integration. The bone collected is already combined with blood and ready to be positioned in the defect, or it can be temporary maintained in aseptic conditions in the transparent chamber.

Benefits of the device

Ready to use the disposable device is presented in individual sterile packages. Its sterility in an undamaged package is guaranteed for 3 years

Minimally invasive

the manual harvesting technique is non-traumatic and well tolerated by

the patient

Useful

cortical bone can be harvested from any intraoral site, including near to the bone defect

Versatile

it is the ideal device for both extensive and minor harvesting procedures. Its curved tip version facilitates access in all intraoral donor sites courtesy of Dr. Ferdinando D'Avenia (Italy).

Properties of the cortical graft

High cells vitality

The manual harvesting technique preserves the cellular component of the graft. The cortical shavings obtained by the Safescraper TWIST blade contain living and well-preserved bone cells, particularly osteocytes (mean vitality: 45-72%), but also osteoblasts, osteoclasts and osteoprogenitor cells.

Ideal morphology

The cortical bone obtained with Safescraper TWIST looks like a elongated and convoluted shaving of a mean length of 1.3 mm and thickness ranging between 150 and 250 µm

## Descriptions, codes, **prices**

| Code | Description | Q.ty | Price |
|---|---|---|---|
| 3987 | Safescraper Twist curve version | 3 | 126,$^{00}$ € |

META

MICROSS

# Making the bone harvesting **a handy procedure**

The experience has acquired in developing bone harvesting systems Safescraper has allowed the realization of Micross: a throwaway minimally invasive disposable device indicated in case of manual cortical bone harvesting. The excellent cutting performance, due to Micross exclusive micro-blade, allows an easy autologous collection even in narrow and hard to reach areas, near to the bone defect. The manual harvesting technique warrants the best preservation of cell vitality of the cortical tissue, a fundamental characteristic that allows the best graft integration and reduces reabsorption activity.

The only instrument for the Tunnel harvesting technique Micross is the only bone harvesting device specifically studied for tunnel surgical techniques that minimize post-operation discomfort. The external diameter of the cannula is 5mm and due to its particular shape the instrument can be inserted in tissue tunnels in the intraoral area as the external oblique line, the cortical palatine and the zygomatic process.

Clinical application
Micross allows the harvest of the strictly necessary measure of bone tissue for the treatment of minor periodontal and peri-implant defects, permitting to avoid the use of bone substitutes.

By using Micross the bone tissue is directly collected in the chamber inside the cannula and it gets an excellent biological plasticity, because of the presence of coagulated blood. The volumizing effect, due to the curly morphology of the collection, reduces the quantity of bone needed to fill the defect and as a consequence it minimizes invasiveness for the patient.

## Descriptions, codes, **prices**

| Code | Description | Q.ty | Price |
|---|---|---|---|
| 4049 | Single use device in sterile single package. Sterility for 3 years unopened | 1 | 55,$^{00}$ € |

RESORBA®
REPAIR AND REGENERATE

# PARASORB® HD CONE

Parasorb® HD Cone are supplied sterile packed and are available in the following package sizes:

DK-10101 Parasorb® HD Cone [10 cones] • ø1.2 cm, h 1.6 cm

# Cones formulated from equine collagen **with or without antibiotic protection**

Following an extraction, the alveolus may not heal in an optimal manner without certain treatments. This can lead to insufficient reformation of bone tissue for secure implant placement, and immediate retreat of the alveolar ridge. It is therefore necessary that the alveolar ridge be reconstructed before an implant is installed.

**1.** Safe, rapid haemostasis. No risk of secondary haemorrhage. Stabilisation of the blood clot with optional antibiotic protection for patients at risk (e.g. smokers, patients with diabetes, patients with compromised immunity).

**2.** Reduction of atrophy in alveolar ridge. Stabilisation of the alveoli and preservation of the vestibular lamella. Maintenance of volume in the alveolar process Improved long-term aesthetic outcome and functionality.

**3.** Reliable bone regeneration. Defined matrix for regeneration. Angioconductive and osteoconductive. Formation of stable bone support for implant in a relatively short timescale. Greater confidence of positive long-term aesthetic outcome and functionality.

**4.** High levels of patient and practitioner satisfaction. Simple, safe application. Simplification of later treatment phases. Increased patient comfort.

## Descriptions, code, **prices**

RESORBA® REPAIR AND REGENERATE **PARASORB® Hd Cone**

| Code | Quantity | Price |
|---|---|---|
| DK-1010 | 10 cone | 90,$^{00}$ € |

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implant systems

prosthetic solutions

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