

B. Braun Biosurgicals

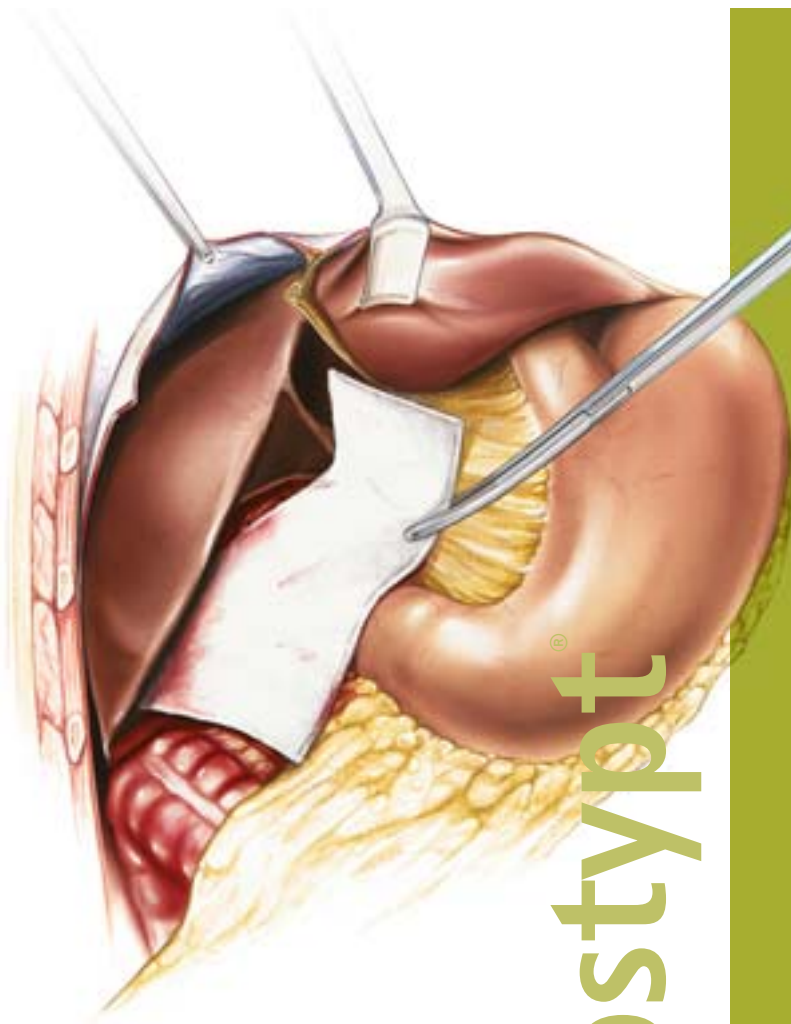
Lyostypt[®]

Superior hemostasis supplied by nature



Lyostypt®

Superior hemostasis supplied by nature



Lyostypt®

Versatility in the OR

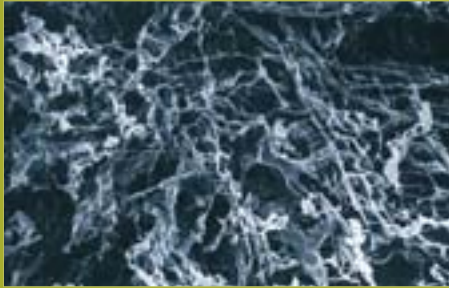
Lyostypt® is used for topical hemostasis of capillary bleeding, oozing hemorrhages, bleeding from parenchymal organs and as a supportive measure for other techniques of hemostasis. In hemodialysis, Lyostypt® can also be used for local hemostasis at the puncture site. Lyostypt® offers what is needed:

- very efficient hemostasis
- excellent biocompatibility
- can be applied endoscopically
- can be combined with fibrin glue *
- can be combined with antibiotics **
- only small amount needed thus cost efficient
- swift uptake of liquids
- absorbable

* S. Uranüs et al., *Laparoskopische Eingriffe an der Milz*, *Chir Gastroenterol* 2004, 20 suppl. 2: 1-8

** Z. Wachol-Drewek et al., *Comparative investigation of drug delivery of collagen implants saturated in antibiotic solutions and a sponge containing gentamicin*, *Biomaterials* 1996, 17: 1733-1738

Collagen



Collagen, a material you can trust

- "Advantages of collagen fleece are fast induction of hemostasis, low tissue reaction, and fast resorption." *
- "Collagen was shown to be the best overall hemostatic agent in microvascular surgery." *
- "Voormolen concluded that collagen fleece established faster hemostasis than oxidized cellulose and that it was resorbed faster than oxidized cellulose." *
- "Direct platelet release stimulation, provides a surface, does not swell." *

* C. Schonauer et al., *The use of local agents: bone wax, gelatin, collagen, oxidized cellulose*, *Eur Spine J* 2004, 13 Suppl. 1: S89-S96

Ordering Information



Lyostypt® is an absorbable collagen compress made of collagen fibrils of bovine origin. Lyostypt® is γ -sterilized. It is available in the following packs and sizes.

Sizes

Lyostypt® collagen compress
3cm x 5cm



Lyostypt® collagen compress
5cm x 8cm



Lyostypt® collagen compress
5cm x 8cm



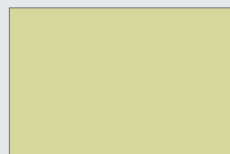
Lyostypt® collagen compress
10cm x 12cm



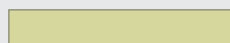
Lyostypt® collagen compress
10cm x 12cm



Lyostypt® collagen compress
20cm x 30cm



Lyostypt® collagen compress
5cm x 30cm



Art. No.

1069128

1069152

1069020

1069209

1069039

1069250

1069306

Contents

12 pieces

6 pieces

12 pieces

4 pieces

8 pieces

2 pieces

4 pieces

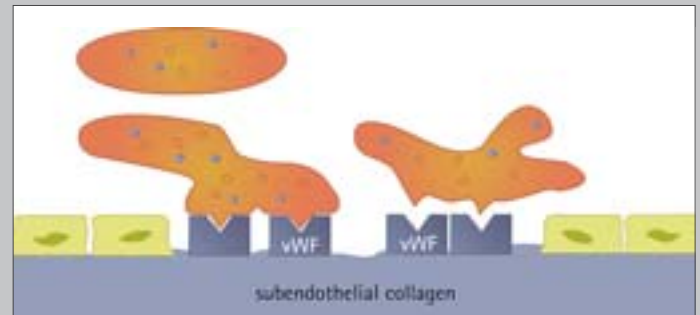
Lyostypt®

Collagen, the driver of hemostasis

Collagen active in primary and secondary hemostasis

Lyostypt® is made of collagen, which is very active in primary hemostasis:

"vWF (von-Willebrand-factor) is building bridges between collagen and thrombocytes...Blood platelets carry receptors for subendothelial matrix proteins such as collagen." *

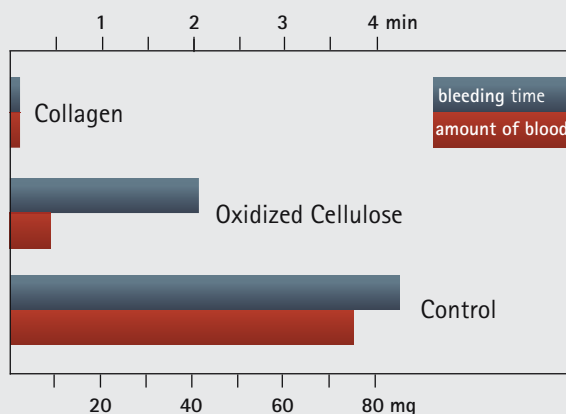


(adapted from: R. F. Schmidt, F. Lang, G. Thews: Physiologie des Menschen 2005, 526)

Collagen also plays an important role within the intrinsic system of secondary hemostasis:

"Here, factor XII gets into contact with negatively charged surfaces such as collagen or (in vitro) glass. In addition, further contributors to the activation and effect of factor XII are high molecular weight kininogen and proteolytic enzymes..." **

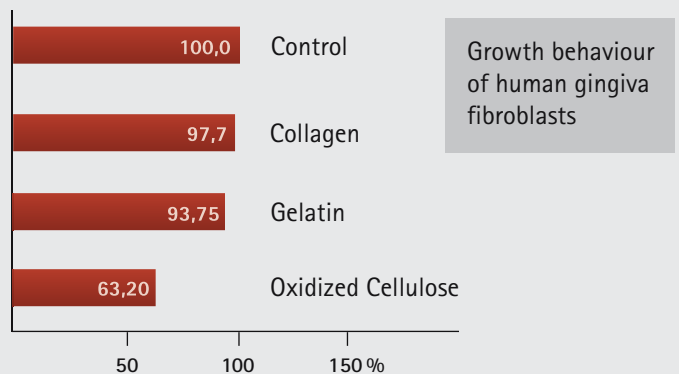
Due to these characteristics collagen reduces the bleeding time and the blood loss very efficiently in animal tests, as can be seen in the attached table.



(adapted from: H. E. Köhnlein et al., Zur Wirkung verschiedener Hämostyptika, Fortsch Med 1974, 13: 579-580)

Collagen stops bleeding, not cell growth

As collagen is a physiologic material found in several body tissues, it has almost no negative effect on normal cell growth as can be observed with other hemostatic agents (see attached table).



(adapted from: D. Heidemann et al., Der Einfluß lokaler Hämostyptika auf menschliche Gingivafibroblasten in Kultur, Dtsch Z Mund Kiefer GesichtsChir 1989, 13: 226-229).

* R. F. Schmidt, F. Lang, G. Thews: Physiologie des Menschen 2005, 525, translated from German

** R. F. Schmidt, F. Lang, G. Thews: Physiologie des Menschen 2005, 527, translated from German



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