

**Helicoll®**  
Efficient Food Protein Supplement For Vegetarian And Vegans

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**World's Strongest and Most Versatile Supplement**

**Vegetarian, Vegan, Gluten-Free, and Non-Transgenic Health**

A Division of The Helicoll Corporation, Inc. www.helicoll.com

**Encoll Corp.**  
Manufacturing/Technology

- \* Helicoll, as an uncross-linked biocompatible collagen, when tightly applied over the wound, it would absorb glucose.
- \* Such glucose pulling of Helicoll collagen would reduce the glycosylation of the collagen produced in the wound-bed.
- \* When the collagen in the wound-bed is relieved from glycosylation, it normally matures and lets the Diabetic wound heal faster.
- \* This provides a scientific explanation for the successful use of HELICOLL to effectively treat the non-healing DIABETIC FOOT ULCERS.

# Helicoll Nano Technology for the success in Diabetic Ulcer Treatments



## Advanced Tissue Regenerative Membrane for Skin Burns, Wounds and Ulcers

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*During wound healing, cells secrete procollagen fibers for the following steps*

**Procollagen**  
**Collagen Fiber Forming**

**Fig.1**

**Diagram showing How Helicoll Nano -technology could heal a Diabetic Ulcer faster than other collagen products.**

**Normal patients**

**Diabetic patients with excess blood glucose are added to collagen to form Glycosylation as a Post Translational modification.**

**Normal Wound Collagen Fibrils**

**Maturation by lysyl Oxidase**

**Normal Matured Cross-Linked Collagen resulting in normal wound healing**

**DFU Collagen fibrils undergo glycosylation**

**Maturation by lysyl Oxidase Inhibited by Glycosylation**

**Non-cross linked immature collagen resulting in delayed wound healing**

**Application of Helicoll Collagen**

**Dramatic reduction of collagen glycosylation in diabetic wound**

**Maturation by lysyl Oxidase**

**Maturation by lysyl Oxidase**

**Normal Matured Cross-Linked Collagen resulting in normal wound healing**

**Bioactive Helicoll on non-diabetics heal 60% faster.**

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**Helicoll's efficacy: brings new blood capillaries within 4 to 5 days!**

Manufacturing/Technology:

 **ENCOLL**

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