**VILLICOL is type 1 collagen in triple helical structure wet & dry sterile reconstituted sheets, purest form of collagen derived from bovine source to activate all four phases of wound healing cascade**

- Skin ulcers
- Trauma wounds
- Burn wounds
- Donor site skin grafts
- Full thickness wounds
- Partial thickness wounds
- Surgical wounds
- Diabetic foot ulcers
- Tunneled wounds

Type-1 Collagen in Triple Helical Structure

# VILLICOL™ *Wet Collagen Sheet*

Purest Form of Collagen - Bovine origin


## Product Overview

VILLICOL is type 1 collagen in triple helical structure wet & dry sterile reconstituted sheets, purest form of collagen derived from bovine source to activate all four phases of wound healing cascade

As a central element of the extracellular matrix, collagen is intimately involved in tissue development, remodeling, and repair and confers high tensile strength to tissues. Numerous medical applications, particularly, wound healing, cell therapy, bone reconstruction, and cosmetic technologies, rely on its supportive and healing qualities.

Collagen, secreted by fibroblasts and epithelial cells, constitutes the most dominant protein of the extracellular matrix (ECM) and connective tissue, and is intimately involved in tissue development, remodeling, repair, and overall physical support.

VILLICOL is made of native triple helical collagen shows...

- Excellent homeostasis
- Sterile adsorbable
- Biodegradable
- Protective bacterial barrier
- Hypoallergenic flexible
- Cost - effective

**VILLICOL Wound healing made easy Help line +91 9884482572 / 9884492572**

Type-1 Collagen in Triple Helical Structure

VILLICOL™ *Wet Collagen Sheet*

Purest Form of Collagen - Bovine origin

Contents: Sterile Type 1 collagen in triple helical structure Wet Sheet in preserving medium containing isopropyl alcohol and water ( FOR EXTERNAL USE ONLY)

**INDICATIONS:**

- 2nd degree ,non –infected burns, superficial & deep dermal burns
- 3rd degree burns – As a temporary cover after escharectomy / tabgential excision
- Skin donor sites, Skin ulcers (Chronic) – stasis, Arterial or Trophic. Pressure ulcers (Shallow), Leprosy ulcers
- Dermabrasion * Traumatic loss of skin cover *Open fractures- as a temporary skin cover

**PRE APPLICATION:**

- Clean and decontaminate and prepare the wound area thoroughly
- Debride infected or necrotic wounds thoroughly
- Ensure satisfactory haemostasis on skin donor sites.

**APPLICATION:**

- Remove **Villicol wet** sheet, squeeze gently & rinse thoroughly in sterile saline, to remove the preserving medium.
- Apply **Villicol wet sheet** firmly on the raw area for good adhesion, and ensure air bubbles are removed.
- Avoid over stretching the sheet as it may tear the sheet may be applied on either surface.

**POST APPLICATION**:

- Option of a secondary dressing is left to the doctors choice
- **VILLICOL wet** sheet peels of as epithelialisation occurs but do not forcibly remove
- Incase adhered **Villicol wet sheet as to be removed from the wound, a pad moisturised with saline can be applied over VILLICOL wet** sheet for a few minutes, to assist easy removal.

**NOTE:** Repeat dressing may not be required unless **VILLICOL wet** sheet is rejected due to underlying pus or complications.

For chronic skin ulcers,2-3 day applications of **VILLICOL Wet** sheet in intervals of 3-4 day , after a thorough debridement/ cleaning, should enhance healing.

**VILLICOL Wet** sheet promotes healthy granulation in deep wound for early grafting

**PRECAUTIONS & WARNINGS:**

**Avoid using VILLICOL Wet** sheet on patients who are hypersensitive to collagen
Grossly infected wounds may reject , **Villicol wet sheet**
**Discard the preserving fluid.**
Do not use if the pack is damaged or open
Sterility not guaranteed if the pack is damaged or open
intended for single use only

**STORAGE: VILLICOL Wet** sheet can be stored at normal room temperature

### Ordering Information

| Product Names | Size |
|---|---|
| VILLICOL - *Wet* sheet | 2″ x 2″ |
| VILLICOL - *Wet* sheet | 2″ x 3″ |
| VILLICOL - *Wet* sheet | 3″ x 4″ |
| VILLICOL - *Wet* sheet | 6″ x 8″ |
| VILLICOL - *Wet* sheet | 8″ x 12″ |
| VILLICOL - *Wet* sheet | 8″ x14″ |

- Sold as set of five and ten individually packaged units.

## Benefits

**Hemostasis:**

*Collagen binds to specific receptor sites on platelet membranes, which swell and release substances to initiate hemostasis*

*Collagen binds to fibronectin, causing platelet adhesion and aggregation.*

**Wound Debridement:**

*Collagen is chemo tactic to monocytes and leukocytes. Monocytes transform into macrophages which scavenge and phagocytise foreign bodies and debris.*

**Granulation & Angiogenesis:**

*Collagen attracts monocytes which transform into macrophages. Macrophages release substances that result in fibroplasias and angiogenesis.*
*Collagen provides support for the growth of new capillaries. The presence of new capillaries is essential for the deposition of new fibres.*

**Fibroblastic Activity:**

*Collagen binds fibronectin, which promotes cell binding and fibrillogenesis, influences fibril dimensions and stimulates fibroblast proliferation and migration.*

*Collagen is chemo tactic to fibrolasts, which direct the restoration of new tissue by depositing oriented and organized fibres. Collagen provides a substrate for directed migration and permeation of fibroblasts.*

**Re-epithelialisation:**

*Collagen directly supports the growth, attachment, differentiation and migration of keratinocytes by binding with fibronectin.*

*Collagen offers a provisional matrix for keratinocytes migration.*

**Wound Remodelling:**

*Collagen reduces scarring by depositing oriented and organized fibres and by regulating the amount of collagenase expressed by keratinocytes*

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