

Collasate[®]

Revolutionizing Collagen

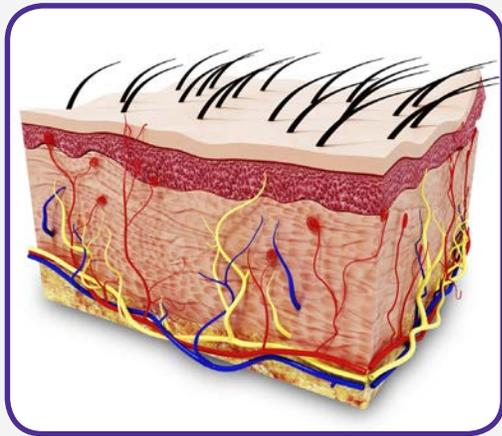


TRANSFORM YOUR
WOUND-HEALING PROTOCOL



Healing Power of Collagen

Collagen is the most abundant protein in the body of all mammals, comprising of 25% of the total protein make-up. Additionally, 70 – 80% of skin that holds the body together is derived from collagen.¹ In fact, “collagen,” derived from “Kolla” in Greek, literally means “glue.”



Collagen is found in all parts of the body of every species including bones, muscles, tendons, blood vessels, connective tissue, and skin.^{2,3} It is a vital part of all stages of the wound healing process in that it stimulates cellular migration and contributes to new tissue development.²

Collagen has been shown to be beneficial by controlling the evaporation of fluid; keeping the wound flexible and pliable; promoting the development of granulation tissue; diminishing pain; providing mechanical protection against physical and bacterial insult⁴ and reducing scarring.⁵ Collagen is also a natural hemostatic agent, which can facilitate early wound stabilization by enhancing the initial blood clot formation.⁶

There are three primary types of collagen proteins in the body: Types I, II, and III. Type I collagen is the most abundant structural component of the dermal matrix – making up 90% -- and plays a major role in healing.¹

While collagen may not be a new wound-healing molecule, it has many unique biological characteristics for which no synthetic substitute exists. The application of Type I Hydrolyzed Collagen in the Collasate® line of products is revolutionizing wound healing protocols.

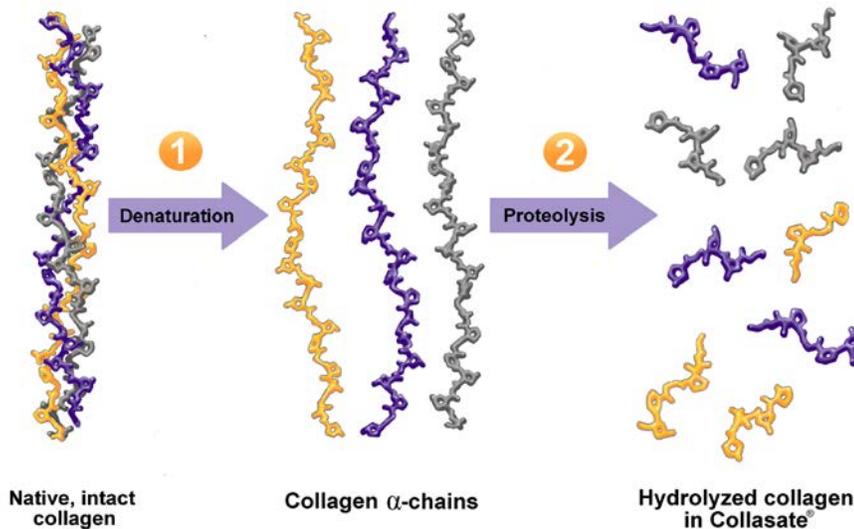
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Collasate®

Revolutionized Collagen

PRODUCTION OF HYDROLYZED COLLAGEN



Collasate® is no ordinary collagen. Its patented formulation contains "activated" collagen, making it readily available to the wound site for immediate absorption. This facilitates the healing process for most wounds. A benefit for all parties, especially the patient.

Due to its chemical resemblance to connective tissue and fluid-binding properties, products using hydrolyzed collagen serve as tissue adhesive for wound closures that do not require sutures.

Unlike other collagen products, the collagen in Collasate is approximately 1/100th the size of native, intact collagen. This molecular weight is significant because it means that the body doesn't have to prepare and breakdown the collagen

by way of its own processes for use. The work has already been done, so Collasate can get to work immediately and encourage the body's own natural healing process (See diagram).

The hydrolyzed collagen in Collasate provides a matrix for cellular colonization and subsequent connective tissue regeneration¹. It also:

- Supplies nutritive protein directly to the site²
- Makes dressing changes simple and non-invasive
- Absorbs bacterial and debris exudate and forms a semi-occlusive film
- Contains no additives or preservatives, and has no known contraindications

References

1. Jain MK, Berg, kRA. Material properties of hard tissue substitutes, Man. In Prep.
2. Stotts N, Tevis D. "Co-factors in impaired wound healing," Ostomy/Wound Management 42:48, 199

Collasate® *Healing Stories*

Meet **FAITH**

In 2014, Faith was the victim of a vicious bobcat attack. Dr. Rother, Dr. Stewart, and the staff at College Hills Veterinary Hospital were afraid Faith would lose her left eye and left ear. The College Hills team made Collasate® part of the healing process, and through multiple surgeries, veterinary expertise, and amazing care, Faith not only survived, but she still has use of her left eye and ear.



A bobcat attack left Faith in bad shape.



Collasate seals and protects the wound.



Today Faith still has use of her eye and ear!

Meet **TYBEE**

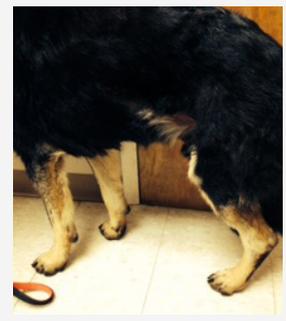
Tybee arrived at Welborn Pet Hospital having been struck and trapped in the wheel well of a moving car. Tybee had extensively detached skin, including approximately ½ of his skin on the left lateral side. With Collasate as part of the healing regimen, Dr. Swanson and the hospital team were able to send Tybee home after just three days. "The wounds began to contract down at an amazing rate," Dr. Swanson says.



Tybee had severely devolved skin.



Collasate helped keep the wound clean during healing.



Tybee recovering nicely.

Meet **LILO**

Lilo, a five-month old teacup blue Chihuahua, slipped out her pet sitter's door and was struck by a car. She had large open wounds on both forearms and a back leg. Her left paw was broken and degloved 360 degrees. Dr. J.R. Swanson and the staff at Welborn Pet Hospital removed the bandages and sent her home with a protocol that included applications of Collasate® gel. Just five weeks after the accident, Lilo was almost completely healed. Her front legs had new skin and new fur.



Lilo had serious wounds to her forearms



Her wounds were healing two weeks after the accident.



In just five weeks, her front legs were growing new fur!

Meet **ROSCO**

After a run-in with a vehicle, Rosco crawled home and waited for his owner, Andy. Rosco suffered an open hock and lacerated thigh – both were deep and contaminated. Andy rushed him to Mills Veterinary Service, where Dr. Mills and her staff gave Rosco the care he needed, including the healing power of collagen in Collasate. In just four weeks, Rosco went “from horrible to healing very well!”



Rosco suffered deep lacerations.



Collasate helps speed the healing process.



Rosco is nearly healed and happy!

Benefits of Collasate®

Gel: Can conform to any wound site and even be sewn into difficult surgical sites.

Silver: Contains silver oxide, which is known to manage bacterial bioburden within the gel when used on infected wounds.

Spray: Ideal for hard-to-reach wounds and also contains Bitrex® to deter licking.



Collasate®: The same product cleared by the FDA to manage chronic and acute wounds in humans is available for animals.

Features:

- Contains tissue-adhesive properties to seal and protect the wound.
- Occludes painful nerve endings.

Benefits:

- Collasate products can enhance the healing process.
- Provides soothing effects and helps minimize scarring by creating the ideal environment for fur regrowth.
- Serves as a liquid-bandage to protect the site and newly formed granulation tissue by the formation of a semi-occlusive barrier that in many cases does not require additional bandages over the wound site. This makes dressing changes a thing of the past for the pet owner.
- Collasate Silver lowers infection risk to provide a level of assurance to the pet owner so the animal can behave normally during the healing process.
- Avoidance of licking minimizes risk of a secondary infection or prolonged healing.

Collasate products are ideal for:

Surgical wounds: Spay/Neuter • Declawing • Tooth Extractions • Skin Mass Removal

Non-surgical wounds: Burns • Traumatic Wounds • Superficial wounds • Grafted Wounds/Donor Sites
• Hot Spots/Lick Granulomas • Ulcers

Supplement Your Protocol with Hexa-Caine™ Spray

Hexa-Caine™ Topical Lidocaine Anti-Itch Spray for Dogs & Cats contains 2.46% Lidocaine Hydrochloride to numb the wound and sooth itching, pain, and discomfort, and also contains Bitrex® to deter fur and chewing so the wound can heal.

Product Label Information

Gel

- **Available size:** 7g
- **Guaranteed Ingredient:** Medical Hydrolysate of Type I Collagen
- **Indications:** Topical use in management of chronic and acute wounds.
- **Ingredients:** Water, Collascent®
- **Directions for Use:** Cleanse the site; apply Collasate directly into the wound or incision and onto the surrounding area; allow the gel to dry, and then cover with a non-stick dressing. Gauze is recommended as the secondary dressing if removing debris from the site. Superficial wounds such as cuts and abrasions may not require a secondary dressing due to the film that Collasate forms on the wound site after drying. Remove secondary dressing as needed and repeat procedure for reapplication.
- **Storage and Safety:** Store at room temperature 15°-30° C (59°-86° F). Keep from freezing. Extreme temperatures may affect viscosity but will not affect product performance. Keep out of reach of children and pets. Use only as directed. If condition worsens or does not improve within 10-14 days, contact your veterinarian.

Spray

- **Available size:** 1 oz. (30mL)
- **Guaranteed Ingredient:** Medical Hydrolysate of Type I Collagen
- **Indications:** For topical use in wound management of chronic and acute wounds.
- **Ingredients:** Water, Bitrex® and Collascent®.
- **Directions for Use:** Shake bottle thoroughly before use. Cleanse the site; apply Collasate directly into the wound or incision and onto the surrounding area; allow the gel to dry, and then cover with a non-stick dressing. Gauze is recommended as the secondary dressing if removing debris from the site. Superficial wounds such as cuts and abrasions may not require a secondary dressing due to the film that Collasate forms on the wound site after drying. Remove secondary dressing as needed and repeat procedure for reapplication.
- **Storage and Safety:** Store at room temperature 15°-30° C (59°-86° F). Keep from freezing. Keep out of reach of children and pets. Use only as directed. If condition worsens or does not improve within 10-14 days, contact your veterinarian. Avoid contact with mouth and nose, as Bitrex is very bitter. Avoid contact with the eyes as the Bitrex may cause eye irritation.

Silver

- **Available size:** 7g
- **Guaranteed ingredient:** Medical Hydrolysate of Type I Collagen
- **Indications:** For topical use in wound management of chronic and acute wounds.
- **Ingredients:** Water, 1% Silver Oxide
- **Directions for Use:** Cleanse the site; allow wound to dry and apply Collasate Silver directly into the wound or incision and onto the surrounding area of at least ¼" thickness. Allow the gel to dry, and then cover with a non-stick dressing. Gauze is recommended as the secondary dressing if removing debris from the site. Superficial wounds such as cuts and abrasions may not require a secondary dressing due to the film that Collasate forms on the wound site after drying. Remove secondary dressing as needed and repeat procedure for reapplication.
- **Storage and Safety:** Store at room temperature 15°-30° C (59°-86° F). Keep from freezing. Extreme temperatures may affect viscosity but will not affect product performance. Keep out of reach of children and pets. Use only as directed. If condition worsens or does not improve within 10-14 days, contact your veterinarian.

Note: Collagen in Collasate is derived from a bovine source (all three SKUs).

PRN® Pharmacal, an employee-owned company, has been dedicated to developing specialized therapeutics that address the unmet, underserved and overlooked needs of the veterinary medicine community since 1978. Our commitment: quality solutions – as needed, when needed.



prnpharmacal.com/Collasate • 800.874.9764 • 8809 Ely Road, Pensacola, FL 32514