

Cellerate[®]
ACTIVATED COLLAGEN[®] *RX Surgical*



Sanara
MedTech

Hydrolyzed Collagen

Ready to support your patient's wound healing process

Some Patients are at a Higher Risk for Developing Surgical Wound Complications¹

Factors that increase these risks include:



Prior surgeries



Diabetes



Peripheral Vascular Disease



Immunosuppressive Deficiencies



Obesity

Type I Collagen properties that support surgical wound progression²



HEMOSTATIC



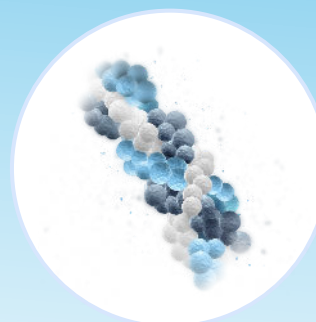
CHEMOTACTIC



ADHESIVE

The Hydrolyzed Collagen Difference³

NATIVE COLLAGEN



Collagen wound into triple helix

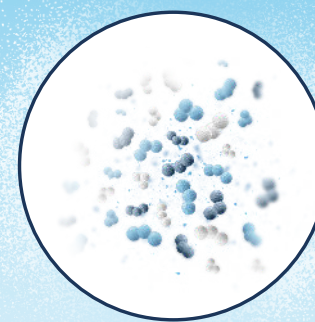
2-5 days to degrade in a healthy patient

Insoluble

Large molecule size

High molecular weight

HYDROLYZED COLLAGEN



Collagen fragmented into amino acids and peptides

Ready for the body to use immediately

Soluble

Small molecule size

Low molecular weight

CellerateRX[®] Surgical Powder

A Type I bovine hydrolyzed collagen that aids in the management of surgical wounds

Indications

- Surgical Wounds
- Traumatic Wounds
- Partial and Full Thickness Wounds
- First and second- degree burns

The Benefits of CellerateRX Surgical Powder

- Provides the benefits of hydrolyzed collagen to the wound bed
- Hydrolyzed collagen fragments do not have to be broken down by the body before use
- Sterilized and packaged for use in the operating room
- Compatible with Negative Pressure Wound Therapy (NPWT)
- Three-year shelf life

Application Process

1

Prepare the surgical wound site

2

Apply CellerateRX Surgical Powder to the wound

3

Cover the surgical wound as per your protocol

Appropriate for Many Surgical Wounds



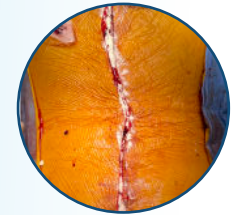
Hip Replacement



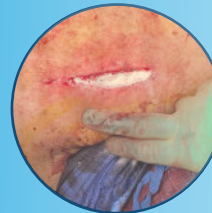
Total Knee Arthroplasty
Revision



Achilles Tendon



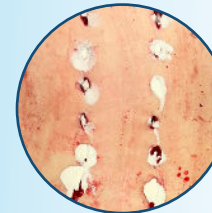
Spinal Deformity and
Thoracolumbar Fusion



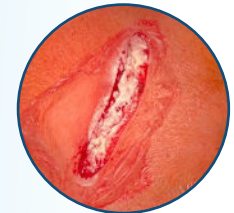
Superficial Femoral Artery
Bypass to Popliteal Artery



Lower Extremity Arterial
Ulcer Limb Salvage



Thoracolumbar
Spine Repair



Cesarean Section

CellerateRX Surgical Ordering Information

PRODUCT #	PRODUCT DESCRIPTION	SIZE
WCI-01-SACRXP	CellerateRX Surgical Powder	1g
WCI-05-SACRXP	CellerateRX Surgical Powder	5g

Please contact us for more product information

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MKT.01.32 Rev# 240328

CellerateRX Surgical Published Clinical Studies

JOURNAL	STUDY TITLE
<i>Journal of Surgery</i>	Activated Collagen Powder Significantly Reduces Surgical Site Infections in Patients Undergoing Elective Surgery ⁴
<i>Orthopedics JSM Neurosurgery and Spine</i>	The Effects of Platelet Rich Plasma and Activated Collagen on Wound Healing in Primary Total Joint Arthroplasty ⁵
<i>JSM Neurosurgery and Spine</i>	The Use of Sterile Bovine Type 1 Hydrolyzed Collagen to Support Surgical Wound Management: A Case Series ⁶
<i>JSM Neurosurgery and Spine</i>	Operative Closure Technique Utilizing Bovine Collagen Fragments in a Prospective Analysis of 102 Consecutive Neurosurgery Patients ⁷
<i>JSM Neurosurgery and Spine</i>	Retrospective Study to Evaluate the Use of Type 1 Bovine Hydrolyzed Collagen to Support Surgical Wound Healing After Spinal Surgery ⁸

References: 1. Cheadle WG. Risk factors for surgical site infection. *Surg Infect (Larchmt)*. 2006;7 Suppl 1:S7-11. doi: 10.1089/sur.2006.7.s1-7. PMID: 16834549. 2. Mathew-Steiner SS, Roy S, Sen CK. Collagen in Wound Healing. *Bioengineering (Basel)*. 2021 May 11;8(5):63. doi: 10.3390/bioengineering8050063. PMID: 34064689; PMCID: PMC8151502. 3. León-López A, Morales- Peñaloza A, Martínez-Juárez VM, Vargas-Torres A, Zeugolis DI, Aguirre-Álvarez G. Hydrolyzed Collagen-Sources and Applications. *Molecules*. 2019 Nov 7;24(22):4031. doi: 10.3390/molecules24224031. PMID: 31703345; PMCID: PMC6891674. 4. Nowrouzi R, Awad SS (2023) Activated Collagen Powder Significantly Reduces Surgical Site Infections in Patients Undergoing Elective Surgery. *J Surg* 8: 1918 DOI: 10.29011/2575-9760.001918 5. Evans DC and Evans BG. The Effects of Platelet Rich Plasma and Activated Collagen on Wound Healing in Primary Total Joint Arthroplasty. *Orthopedics*. 2018; 41(2):e262-e267 6. Gitelman A (2022) "The Use of Sterile Bovine Type 1 Hydrolyzed Collagen to Support Surgical Wound Management: A Case Series." *JSM Neurosurg Spine* 08/22 7. Dickerman R, Ashley SRNP, Winters K. "Operative Closure Technique Utilizing Bovine Collagen Fragments in a Prospective Analysis of 102 Consecutive Neurosurgery Patients." *JSM Neurosurg Spine* 2017: 5(2): 1088. 8. Hotchkiss WR (2021) "Retrospective Study to Evaluate the Use of Type 1 Bovine Hydrolyzed Collagen to Support Surgical Wound Healing After Spinal Surgery" *JSM Neurosurg Spine* 8(1):1103.