ExtremityCare®

Coll-e-Derm™

HUMAN ACELLULAR DERMAL MATRIX

Coll-e-Derm™ is a prehydrated human acellular dermal matrix that retains angiogenin and collagen type IV. Angiogenin and collagen type IV may play a key role in supporting revascularization.[1]

Using a proprietary, patented and gentle process, a sterility assurance level (SAL) of 10^{-6} is achieved, while retaining angiogenin and collagen type IV of native dermis.[1]

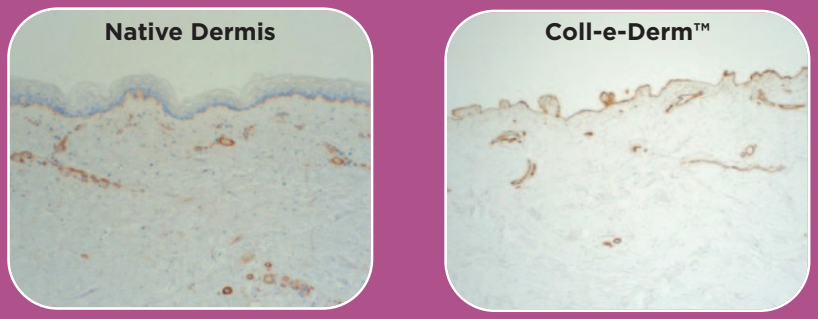
By preserving a more intact matrix, Coll-e-Derm™ maintains similar biomechanics to native dermis.[1]

Features[1,2]	Advantages[1,2]
Proprietary and patented gentle processing	Retains angiogenin and collagen type IV
Intact Matrix	Biomechanical properties similar to native dermis
Prehydrated	Ready-to-use
Sterility Assurance Level (SAL) 10^{-6}	Favorable safety profile

How Does Coll-e-Derm™ Compare to Native Dermis?

Coll-e-Derm™ is proven to retain angiogenin and collagen type IV.[1]
Coll-e-Derm™ maintains structural integrity, mechanical strength, and collagen stability similar to native dermis.[1]

Figure 1. *The brown staining identifies collagen type IV, which is present in the basement membrane at the epidermis-dermis junction and around blood vessels. Collagen type IV is known to be involved in pathways that support blood vessel formation such as angiogenesis. Angiogenesis is the physiological process through which new blood vessels form from pre-existing vessels.*



COLLAGEN IV STAINING

	Mechanical Strength[1]		Collagen Stability[1]	
	Suture retention strength (N/mm)	Onset T^m (°C)	% Soluble Col (w/w)	% Digested Col (w/w)
Native	61.0 ± 4.1	64.2 ± 0.2	47.6 ± 1.3	21.9
Coll-e-Derm™	61.1 ± 12.2	61.3 ± 0.91	62.6 ± 1.2	26.7

Figure 2.
- *Onset T^m: Temperature where a substance starts to melt*
- *% Soluble Collagen (w/w): Percentage of collagen fiber that can be dissolved in acid*
- *% Digested Collagen (w/w): Percentage of collagen fiber that is unraveled (in this case by collagenase type I)*

Potential for Robust Remodeling

Coll-e-Derm™ prehydrated Acellular Dermal Matrix (ADM) maintains structural attributes of native dermis that may facilitate remodeling.[1]

Similar to native dermis, Coll-e-Derm™ retains intact collagen, elastin, and vascular structure that may provide a robust platform for allograft integration.[1]

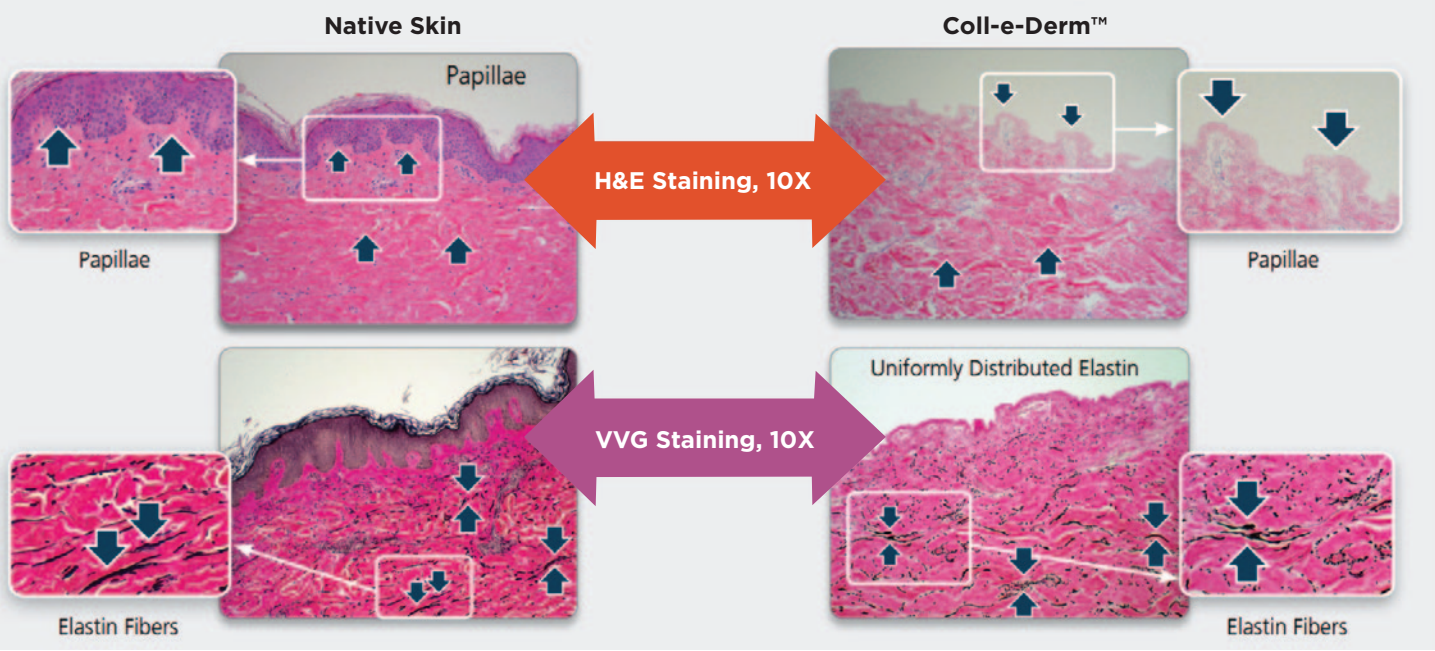


Figure 3. *ADM is structurally similar to native dermis.*

- Hematoxylin and eosin (H&E) staining shows cellular and tissue structure detail.
- Verhoeff-Van Gieson (VVG) staining differentiates collagen and other connective tissues, and highlights elastin fibers. Elastin fibers are connective tissue fibers that allow tissue to stretch.

Ordering Information

SKU	Description	Size	Units	UPC
ADT22M	Coll-e-Derm™, Acellular Dermal Matrix, Meshed	2x2cm	4	382567001332
ADT23M	Coll-e-Derm™, Acellular Dermal Matrix, Meshed	2x3cm	6	382567001233
ADT24M	Coll-e-Derm™, Acellular Dermal Matrix, Meshed	2x4cm	8	382567001349
ADT44M	Coll-e-Derm™, Acellular Dermal Matrix, Meshed	4x4cm	16	382567001356
ADT46M	Coll-e-Derm™, Acellular Dermal Matrix, Meshed	4x6cm	24	382567001363
ADT48M	Coll-e-Derm™, Acellular Dermal Matrix, Meshed	4x8cm	32	382567001370

[1] Testing performed by independent laboratory. Data on file, Aziyo Biologics. Animal and bench testing results may not necessarily be indicative of clinical performance.
[2] Coll-e-Derm™ Hydrated Instructions for Use
Coll-e-Derm™ Hydrated is to be used for the repair or replacement of damaged or insufficient integumental tissue or for other homologous uses of human integument.

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