

# Why would you use anything other than AlloDerm™ Regenerative Tissue Matrix?

When it comes to maintaining graft integrity, not all processing is the same

## The LifeCell Tissue Process: 3-Phase Approach

strict donor screening

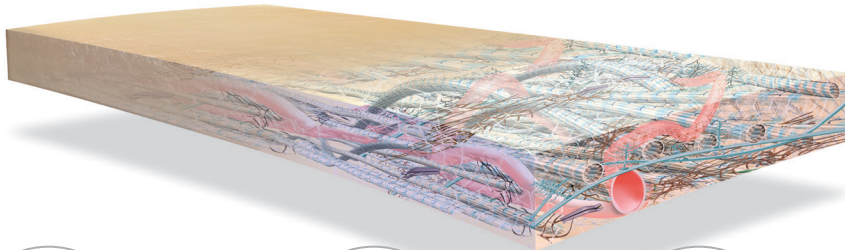
meticulous tissue processing

rigorous product release testing

**AlloDerm™ RTM**

### The End Result: AlloDerm™ RTM

- critical biochemical components are preserved
- undamaged, intact, and decellularized tissue matrix
- no evidence of microbial pathogens detected
- supports a positive immunologic response and regeneration as seen in primate models



Maintenance of graft integrity is essential to achieving successful biological outcomes. AlloDerm RTM is minimally manipulated and processed gently to ensure it retains components critical to maintaining the biochemical and biomechanical integrity of the tissue. Components of an undamaged intact tissue matrix.



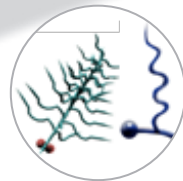
#### Vascular Channel<sup>3</sup>

Vessels that provide blood flow throughout the matrix, enabling initial revascularization



#### Fibronectin<sup>8</sup>

Complex proteins that mediate a variety of cellular interactions; responsible for modulating cell adhesion, migration, growth and differentiation



#### Large & Small Proteoglycans<sup>7</sup>

Large and small macromolecules that guide revascularization and cell repopulation and regulate extracellular matrix structure through assembly and construction



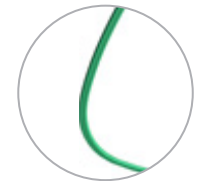
#### Fibrillar Collagen & Collagen VI<sup>9</sup>

Triple-stranded proteins that assemble into fibril complexes to provide structure and tensile strength



#### Elastin<sup>9</sup>

Fibers that function in close association with collagen to provide elasticity and recoil



#### Hyaluronan<sup>9</sup>

High molecular weight polysaccharide molecules that control tissue hydration, driving water transport and maintaining the elastoviscosity of connective tissues throughout the body

For more information, contact your local Territory Manager or call Customer Care: **1.888.246.8338**  
Order 24/7 at [store.biohorizons.com](http://store.biohorizons.com)

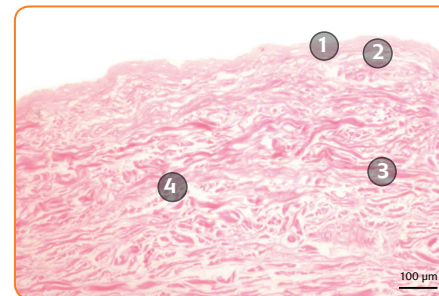
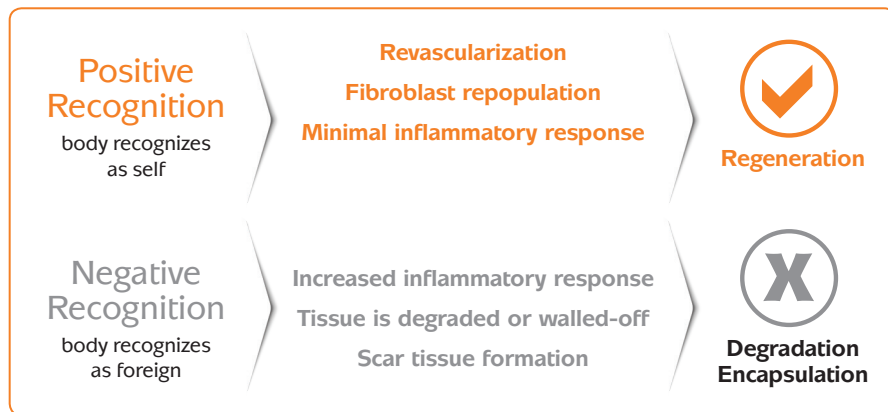
**BIOHORIZONS®**

# Why would you use anything other than AlloDerm™ Regenerative Tissue Matrix?

AlloDerm™ RTM is the most widely supported and published ADM in dentistry<sup>1</sup>

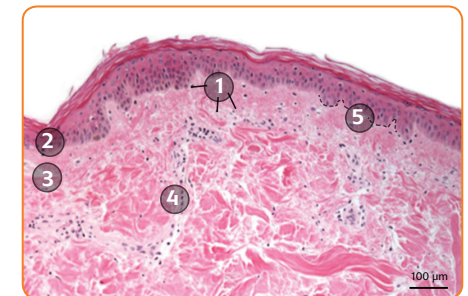
An ADM is recognized either positively or negatively. How tissue is processed and sterilized can determine the body's immunologic response and mechanism of actions. The patient's body recognizes implanted tissue as either self or foreign.<sup>5,6</sup>

AlloDerm proprietary tissue processing maintains tissue integrity. The structure of AlloDerm RTM most resembles native dermis.<sup>3,9,10</sup>



**AlloDerm RTM**

- 1) Intact basement membrane
- 2) Papillary dermis
- 3) Basket weave configuration
- 4) Reticular dermis



**Human Dermis (100x, H&E stained)**

- 1) Cells
- 2) Epidermis
- 3) Papillary dermis
- 4) Reticular dermis
- 5) Basement membrane

## References:

1. Data on file, BioHorizons. Pubmed search performed March 2018: AlloDerm dental, AlloDerm dentistry, AlloDerm periodontal, Mucograft, Puros Dermis, Perioderm.
2. AlloDerm Regenerative Tissue Matrix (RTM) Instructions for Use.
3. Sandor M, Leamy P, Assan P, et al. Relevant in vitro predictors of human acellular dermal matrix-associated inflammation and capsule formation in a nonhuman primate subcutaneous tissue expander model. *Eplasty*. 2017;17:e1-e21.
4. Xu H, Wan H, Sandor M, et al. Host response to human acellular dermal matrix transplantation in a primate model abdominal wall repair. *Tissue Eng Part A*. 2008;14(2):2009-2019.
5. Harper JR, McQuillan DJ. Extracellular wound matrices: a novel regenerative tissue matrix (RTM) technology for connective tissue reconstruction. *Wounds*. 2007;19(6):163-168.
6. Ludwig MS. Proteoglycans and pathophysiology. *J Appl Physiol*. 2007;103:735-736.
7. Pankov R, Yamada KM. Fibronectin at a glance. *J Cell Sci*. 2002;115:3861-3863.
8. Necas J, Bartosikova L, Brauner P, Kolar J. Hyaluronic acid (hyaluronan): a review. *Vet Med*. 2008;53(8):397-411.
9. Data on file, Allergan. LRD2011-08-015.
10. Data on file, Allergan. LRD2013-02-004.
11. Sandor M, Xu H, Connor J, et al. Host response to implanted porcine-derived biologic materials in a primate model of abdominal wall repair. *Tissue Eng Part A*. 2008;14(12):2021-2031.
12. Data on file, Allergan. December 2016. HIV Viral Safety Profile of AlloDerm RTM.