Not Your Ordinary ECM

Cytal® Burn Matrix® is a medical device engineered using ACell’s proprietary MatriStem UBM™ (Urinary Bladder Matrix) technology. The device maintains an intact epithelial basement membrane and facilitates the body’s ability to remodel site-appropriate tissue. Cytal Burn Matrix is appropriate for the management of severe second degree burns.

Cytal Burn Matrix

- Provides a scaffold for natural remodeling
- Contains an intact epithelial basement membrane and numerous collagens
- Rapid coverage of burn injury
- Complements standard of care

* Previously marketed as MatriStem® Burn Matrix.
Cytal Burn Matrix has become an integral part of my practice, allowing me to manage severe partial-thickness burns and restore my patients’ tissue to a more natural state.

— Dr. Timothy Pittinger
Director, Burn Surgery

Product Composition

Cytal Burn Matrix devices contain multiple types of carbohydrates, collagens, proteins and other components. These product characteristics facilitate a remodeling process by the body that promotes the formation of site-appropriate tissue. These features represent key competitive advantages over other treatment modalities and offer new wound management paradigms for a range of procedures.

<table>
<thead>
<tr>
<th>Cytal Burn Matrix Products</th>
</tr>
</thead>
<tbody>
<tr>
<td>Epithelial Basement Membrane</td>
</tr>
<tr>
<td>Glycosaminoglycans</td>
</tr>
<tr>
<td>Collagen Type I</td>
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<tr>
<td>Collagen Type III</td>
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<td>Collagen Type IV</td>
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<tr>
<td>Collagen Type VII</td>
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<tr>
<td>Laminin</td>
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</tbody>
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Epithelial Basement Membrane
The epithelial basement membrane is hypothesized to contribute to epithelial and progenitor cell attachment and proliferation.

Lamina Propria
The lamina propria surface may be conducive for integration of host connective tissue into the scaffold.

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Cytal Burn Matrix devices are manufactured with ACell’s proprietary MatriStem UBM™ (Urinary Bladder Matrix) technology. In a peer reviewed study, ACell’s UBM Surgical Matrix devices showed strong evidence of remodeling when compared to 14 commercially available biologically-derived devices. Favorable host remodeling response correlated to a higher amount of M2 phenotype. Host cells more favorably migrated to M2 phenotype macrophages, indicating a possible mechanism for the formation of site-appropriate tissue.

Photomicrographs of hematoxylin and eosin stained slides showing examples of the host remodeling response to MatriStem UBM technology at 14 (left panel) and 35 days (right panel). Images with higher magnification represent the area within the black box in lower magnification images.

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Burn Management Case

Upper Extremity Second Degree Burn Injury
Circumferential partial-thickness flash burn to upper left arm.

- Initial presentation of the injury.
- 30 days after treatment with Cytal Burn Matrix technology.
- 60 days post-application of Cytal Burn Matrix technology.

Injury Managed With Cytal Burn Matrix

- Complete epithelialization with formation of immature rete pegs
- Normal collagen structure with partial elastin content
- Robust vascularization comparable to normal tissue
- Positive staining for glycosaminoglycans (GAG’s)
# Product List

<table>
<thead>
<tr>
<th>Product</th>
<th>Item Number</th>
<th>Size</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cytal Burn Matrix, Meshed</td>
<td>BMM0505</td>
<td>5 x 5 cm</td>
<td>1/box</td>
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<tr>
<td>Cytal Burn Matrix, Meshed</td>
<td>BMM0710</td>
<td>7 x 10 cm</td>
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<tr>
<td>Cytal Burn Matrix, Meshed</td>
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