OrACELL®

Decellularized Dermis for Maxillofacial Applications
This patented and validated process renders allografts acellular, while retaining the desired physiological properties for its intended surgical application.

- Short processing time reduces the opportunity for water-mediated lysis of the natural collagen and elastin scaffold
- Utilizes multiple disinfecting agents to provide for comprehensive tissue disinfection prior to terminal sterilization
- Does not utilize any animal-derived reagents
- Uses validated DNA assessment methods able to detect as little as one nanogram (ng/mL) of nucleic acid to validate that the tissue has been decellularized

*ISO 10993-5  **Data on file at LifeNet Health, Virginia Beach, VA.  *** 15° – 30° C
Biocompatibility

MATRACELL™ removes cells and >97% DNA from the dermal matrix.**

![Figure 1: Human skin pre (a.) and post (b.) decellularization (Hematoxylin and Eosin staining).](image)
- Note absence of cellular components in Oracell® (b.)

![Figure 2: Human skin pre (a.) and post (b.) decellularization (Major Histocompatibility Complex 1 staining).](image)
- Brick red staining demonstrates MHC I presence
- Note absence of MHC I in Oracell® (b.)

Recipient Response

An intact acellular matrix of collagen, elastin and growth factors provides a clean scaffold needed for proper healing.**

![Figure 1: Oracell® explanted after Day 16 in a mouse excisional skin model.](image)

Case Study

A surgery performed for implant placement at the sites of congenitally missing lateral incisors. A combination of OraGraft® mineralized cortical particulate and Oracell® decellularized dermis were required on the labial to correct for the thin bone support and to increase the soft tissue profile in these areas.

This surgical case was generously provided by Paul S. Rosen, DMD, MS. Dr. Rosen maintains a private practice limited to Periodontics and Implants in Yardley, PA.
<table>
<thead>
<tr>
<th>Room Temperature***</th>
<th>Size</th>
<th>Thickness</th>
<th>Use</th>
</tr>
</thead>
<tbody>
<tr>
<td>OCELL100</td>
<td>1.5 x 2.0 cm</td>
<td>0.76 to 1.25 mm</td>
<td>GTR/GBR “membrane”</td>
</tr>
<tr>
<td>OCELL101</td>
<td>2.0 x 4.0 cm</td>
<td>0.76 to 1.25 mm</td>
<td>GTR/GBR “membrane”</td>
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<tr>
<td>OCELL200</td>
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<td>1.26 to 1.75 mm</td>
<td>Soft Tissue</td>
</tr>
<tr>
<td>OCELL201</td>
<td>2.0 x 4.0 cm</td>
<td>1.26 to 1.75 mm</td>
<td>Soft Tissue</td>
</tr>
</tbody>
</table>

*** 15° – 30° C

LifeNet Health helps save lives and restore health for thousands of patients each year. We are the world’s most trusted provider of transplant solutions, from organ procurement to new innovations in bio-implant technologies and cellular therapies—a leader in the field of regenerative medicine, while always honoring the donors and healthcare professionals that allow the healing process.

Please contact your LifeNet Health representative for more information about our comprehensive offering of allograft products and services.