

# LevaGRAF™

## Cross-Linked Placental Collagen Matrix Augmenting Better Results for Periodontal and Oral Applications



LevaGRAF™ is a terminally sterilized, naturally-derived, placental collagen matrix that acts as a mechanically robust and biologically active barrier. LevaGRAF™ has been biengineered with a proprietary controlled-release mechanism to prevent premature absorption, further sustaining the regenerative and therapeutic properties following allogeneic transplant.<sup>(1)</sup>

### Mechanical Properties<sup>(2)</sup>

Permeability • Stability • Elasticity • Flexibility • Plasticity • Resorbability

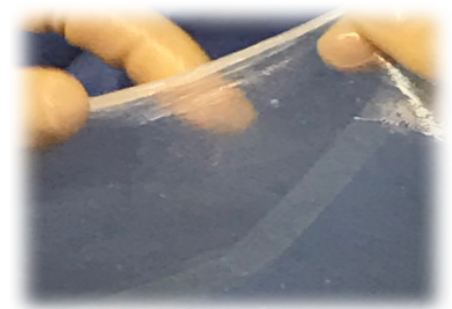
### Oral and Periodontal Applications

- Bone grafted extraction sockets
- Apioectomy/retrofilled sites
- Oral mucosa surgical defects
- Class III/IV periodontal furcations
- Covers sinus lateral window
- Gingiva wound healing and mild gingival recession
- Sinus and Schneiderian Membrane perforations
- Ridge augmentation
- Intrabony defects
- Eliminates periodontal fenestrations
- Covers biopsy and cyst removal sites
- Adhesion barrier in TMJ surgery
- Cover denuded root surfaces and reduce recession depth
- Alternative to absorbable collagen and synthetic coverings
- Alternative to oral procedures requiring connective and palatable tissue grafts <sup>2, 3, 4, 5, 6, 7, 8, 9, 11</sup>

### Patient Experience:

“This is the first time I didn’t have any pain afterwards. On a pain scale from 1-10, my pain was less than a one, like a point (.) 25. I’m used to a pain level of 5 or 6 the first 2 days after the surgery and my face is always swollen and bruised the next day. But not this time... it’s a miracle!” ~George G. (07/10/17)

{1st time experience with LevaGRAF™ covering used over bone grafted extraction socket on 06/28/17}



7 x 15-cm<sup>2</sup> Hydrated LevaGRAF™

“Human Amnion Membrane (hAM) is a global multi-functional protein and used for a wide range of surgical applications. (hAM) has low immunogenicity and anti-inflammatory biological properties and is one of the few tissues that has low vascularity<sup>(3)</sup>. (hAM) maintains the structural and anatomical configuration of regenerative tissues but also enhances gingival wound healing by facilitating the reparative properties of intrinsic stem/progenitor cells. Therefore, amniotic membrane is a material of choice these days in augmenting better results in various periodontal procedures”<sup>(4)</sup>.

# LevaGRAF™ = More Growth Factors

## Published Properties and Benefits of Birth Tissues

### Accelerates Healing

...Effective in tissue regeneration and guided bone regeneration, prevents fibrous tissue invasion<sup>3,5</sup>

### Immunoprivileged

... absence of inducing an immune reaction<sup>5</sup>

### Reduces Pain

...Increased blood supply and oxygen<sup>7,11,12</sup>

### Reduces Scar Formation

...Facilitates migration of epithelial cells<sup>7,11</sup>

### Remodels Tissue

... Mimics function of native Extracellular Matrix, promoting cell migration, replication and angiogenesis<sup>12</sup>

### Anti-Inflammatory

...Modulates Inflammation<sup>11,12,13</sup>

### Anti-Bacterial/Anti-Microbial

...Cleanses and protects, prevents infection<sup>11,12,13</sup>

### Extracellular Matrix Composition

...Collagen types I, III, IV, VI, fibronectin, nidogen, laminin, proteoglycans<sup>13</sup>

## For more information or to place an order:

Direct: 303-500-5151

Toll Free: 1-888-328-1383

Fax: 720-941-6865

sales@levanabiologics.com

Or

Visit us online at

Levanabiologics.com

## Sizes

1 x 1-mm (1 cm<sup>2</sup>)

2 x 2 mm (4 cm<sup>2</sup>)

2 x 4-mm (8 cm<sup>2</sup>)

LevaGRAF™ is offered in hydrated and dehydrated formats.

## Quality & Safety

- Over 4,000 LevaGRAF™ units have already been safely and successfully transplanted
- Available in terminally sterilized hydrated or dehydrated formats
- Over 226 growth factors, cytokines, chemokines present post-preservation
- Excess can be folded onto itself for a more customized fit
- Handling easability, self-adhesive
- Complimentary consult with Chief Scientific Officer
- Terminal Sterilization has been proven to retain maximum biological activity, while ensuring maximum patient safety<sup>14,15,16</sup>

## Manufacturer

Levana Biologics is partnered with a world-renowned Cell Therapy and Regenerative Medicine Academic Institution and University to manufacture LevaGRAF™ and other biomaterials. LevaGRAF™ qualifies as a human tissue allograft (HCT/P) as outlined in 21 CFR 1271 under Section 361 of the Public Health Service Act. Collection, processing, preservation and storage are performed utilizing a proprietary process (patent pending) by an FDA registered, AATB, FACT, CAP accredited, CLIA certified laboratory. LevaGRAF™ is a cryoprotectant-free, gamma-irradiated, chorion-free, human Amniotic Membrane Allograft tissue prepared from birth tissues donated after Cesarean section delivery from a screened and qualified volunteer donor.

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The Evolution of Medicine

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