HNM Acellular Corecell

Dermis Allograft. Human Collagen Matrix

PRODUCT INFORMATION

HNM MEDICAL
SINCE 2004

INDICATIONS

HNM ACELLULAR CORECELL DERMIS ALLOGRAFT

Soft Tissue Allografts are derived from human donors and undergo meticulous processing and sterilization procedures to ensure safety and compatibility for a wide range of procedures. Serving as specialized scaffolds, these allografts facilitate tissue regeneration and seamless integration with the recipient's anatomy upon implantation. These premium allografts support optimal healing and enhanced patient outcomes across diverse medical applications.

LYOPHILIZED ACELLULAR DERMIS

Versatile Dermis-Derived Allografts for Enhanced Healing Lyophilized Acellular Dermis is meticulously processed to remove cellular components while preserving the essential extracellular matrix. This specialized graft, rich in structural proteins such as collagen and elastin, is available in multiple thickness configurations to meet clinicians' specific needs. With a reduced risk of infection, it promotes successful healing and functional restoration, ensuring optimal outcomes for patients.

FEATURES & BENEFITS

1. BIOCOMPATIBILITY:

- Facilitates cellular infiltration and vascularization, promoting natural integration with host tissue.
- Minimizes inflammatory response and rejection risks.

2. DURABILITY AND STRENGTH:

- Provides robust structural support ideal for weight-bearing regions like the foot and ankle.
- Maintains integrity under mechanical stress.

3. ENHANCED HEALING OUTCOMES:

- Encourages faster wound closure and tissue regeneration.
- Reduces the risk of complications such as infection and graft failure.

4. LONG SHELF LIFE:

- Lyophilization ensures extended storage without the need for refrigeration, improving accessibility.

5. REDUCED DONOR SITE MORBIDITY:

- Eliminates the need for harvesting autografts, sparing patients additional surgical procedures.

COMPARISON OF LYOPHILIZED SKIN, ANIMAL-BASED SUBSTITUTES, AND ARTIFICIAL SKIN SUBSTITUTES:

1. SOURCE AND COMPOSITION:

- **Lyophilized Skin:** Human-derived acellular dermis, preserving extracellular matrix proteins like collagen.
- **Animal-Based Substitutes:** Xenografts derived from porcine, bovine or equine tissue, may elicit immune responses despite processing.
- **Artificial Substitutes:** Synthetic materials, often composed of polymers like silicone or collagen blends.

2. BIOCOMPATIBILITY:

- **Lyophilized Skin:** High biocompatibility with minimal immune response.
- **Animal-Based Substitutes:** Potential for immune reactions due to cross-species origin.
- **Artificial Substitutes:** Lower biocompatibility; may cause inflammation or delayed integration.

3. INTEGRATION AND HEALING:

- **Lyophilized Skin:**Promotes natural tissue integration and vascularization.
- **Animal-Based Substitutes:**Moderate integration; may require additional treatment to enhance vascularization.
- **Artificial Substitutes:** Slower integration, primarily acts as a temporary scaffold.

4. DURABILITY AND FUNCTIONALITY:

- **Lyophilized Skin:** Strong and durable, suitable for load-bearing applications.
- **Animal-Based Substitutes:** Moderate durability, less ideal for high-stress areas.
- **Artificial Substitutes:** May lack the mechanical strength needed for long-term applications.

5. STORAGE AND ACCESSIBILITY:

- **Lyophilized Skin:** Long shelf life without refrigeration.
- **Animal-Based Substitutes:** Requires careful storage conditions to maintain viability.
- **Artificial Substitutes:** Typically easier to store but may have shorter functional lifespans.

SCIENTIFIC BASIS AND RESEARCH EVIDENCE:

- **Histological Studies:** Demonstrate effective cellular infiltration and ECM preservation.
- **Clinical Trials:** Show significant improvement in healing times and reduced infection rates.
- **Case Studies:** Highlight successful outcomes in patients with complex foot and ankle conditions.

HNM Acellular Corecell Dermis Allograft paradigm shift in surgical reconstruction. Its unique combination of biocompatibility, durability, and accessibility makes it a preferred choice for surgeons aiming to achieve optimal outcomes. Compared to animal-based and artificial substitutes, lyophilized skin offers superior integration, strength, and versatility. As ongoing research continues to validate its efficacy, lyophilized skin is poised to become a cornerstone in reconstructive procedures.

APPLICATIONS

1. TRAUMA REPAIR

- Coverage of complex wounds resulting from fractures or crush injuries.
- Restoration of soft tissue integrity.

2. DIABETIC FOOT ULCERS

- Treatment of chronic, non-healing wounds.
- Prevention of further complications like amputation.

3. TENDON AND LIGAMENT REPAIR

- Provides scaffolding for regeneration in Achilles tendon injuries and ligament repairs.

4.POST-ONCOLOGIC RECONSTRUCTION:

- Soft tissue replacement after tumor excision.

5. AESTHETIC AND FUNCTIONAL RESTORATION:

- Enhances cosmetic outcomes and functional capabilities in deformity correction surgeries.

ORDERING INFORMATION

Item #	Size	Coverage Area
Lyophilized Acellular Dermis	2x4 cm	8cm^2
Lyophilized Acellular Dermis	4x4 cm	16cm^2
Lyophilized Acellular Dermis	4x7cm	28cm^2

***Other sizes maybe available