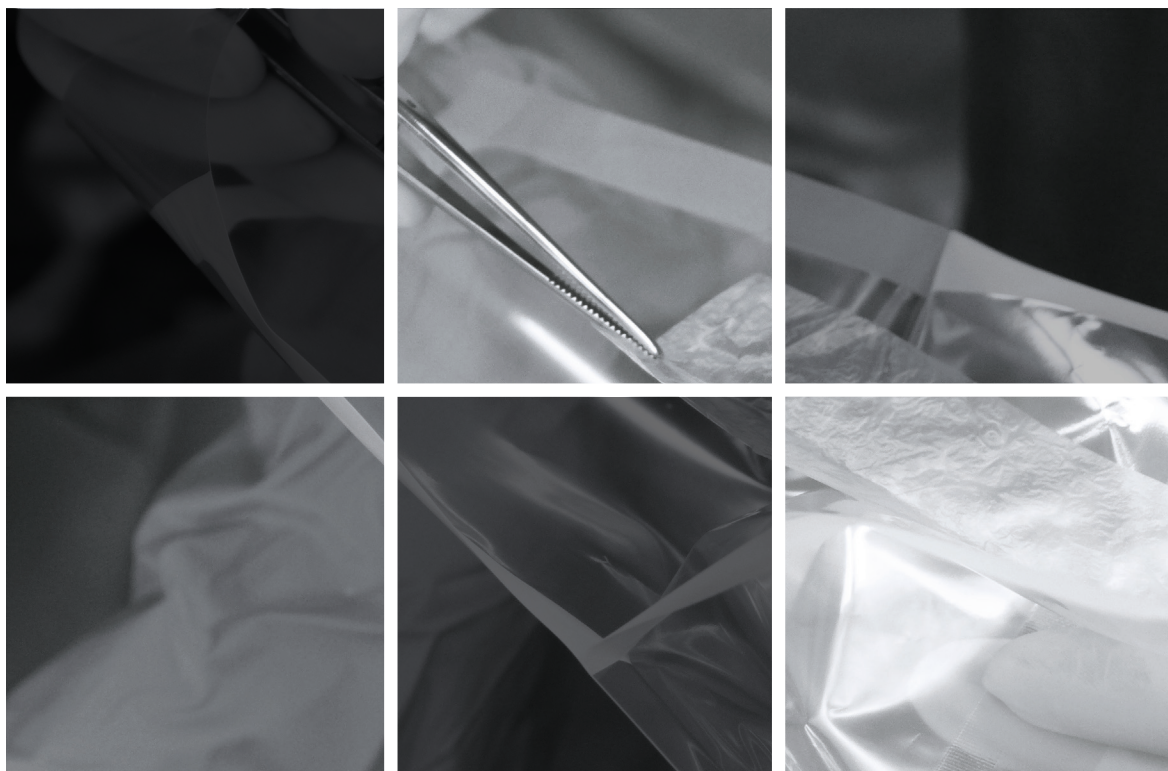




# BioECM<sup>®</sup> & BioRenew<sup>®</sup>

Amniotic & Placental Tissue Allografts



THE POWER OF THE BODY.  
THE INNOVATION OF SCIENCE.<sup>®</sup>

Designed for Multi-Specialty  
Surgical & In-Office Applications

## SURGICAL PRODUCTS



### CryoMatrix® Placental Tissue Matrix

The Original Flowable Connective Tissue Matrix™. Cryopreserved, flowable tissue matrix derived from human placental connective tissue.



#### Features

- True fluid tissue matrix™
- Cryopreserved -80°C storage
- 5 min thaw time
- Easy to target intended site



### ActiveMatrix® Placental Tissue Matrix

The Original Ambient Flowable Tissue Matrix™. Flowable tissue matrix derived from human placental connective tissue.



#### Features

- True fluid tissue matrix™
- Room temperature storage
- Ready to use in the vial
- Easy to target intended site



### ActiveBarrier®45 Amniotic Membrane Allograft

Dehydrated amnion membrane. Ideal structure, flexibility and adherence characteristics.



#### Features

- Thinner, versatile membrane
- Adheres well without fixation
- Can be applied dry or wet
- Chorion-free



### ActiveBarrier®200 Amniotic Membrane Allograft

Dehydrated chorion-based membrane with increased thickness.



#### Features

- Thicker, providing more tissue
- Adheres well without fixation
- Can be applied dry or wet
- Easier to handle

## SURGICAL PRODUCTS

## WOUND CARE



### RX Flow Placental Tissue Matrix

Flowable tissue matrix derived from human placental connective tissue.



#### Features

- True fluid tissue matrix™
- Ambient or cryopreserved
- Ready to use in the vial
- Easy to target intended site



### RX Membrane Amniotic Membrane Allograft

Dehydrated amniotic membrane. Ideal structure and handling characteristics.



#### Features

- Two thicknesses available
- Adheres well without fixation
- Can be applied dry or wet



### WoundEx® Flow Placental Tissue Matrix

Flowable tissue matrix for use as a skin substitute in outpatient wound care.



#### Features

- True fluid tissue matrix™
- Room temperature storage
- Ready to use in the vial
- HCPCS code **Q4162**



### WoundEx® Membrane Amniotic Membrane Allograft

Dehydrated amniotic membrane for use as a skin substitute in outpatient wound care.



#### Features

- Various sizes & configurations
- Adheres well without fixation
- Can be applied dry or wet
- HCPCS code **Q4163**

## BIORENEW® PTM THERAPY® IN OFFICE



### PX50®

BioRenew® Placental Tissue Matrix (PTM) Therapy®

PTM Therapy® formulated for in-office treatment of common pain management conditions.



#### Features

- True fluid tissue matrix™
- Ready to use in the vial
- One-time treatment
- No tissue draw or spin down time



### DX100®

BioRenew® Placental Tissue Matrix (PTM) Therapy®

PTM Therapy® formulated for in-office treatment of complex & interventional pain conditions.



#### Features

- True fluid tissue matrix™
- Ready to use in the vial
- One-time treatment
- No tissue draw or spin down time



### ReVive® Flow

BioRenew® Placental Tissue Matrix (PTM) Therapy®

PTM Therapy® formulated for in-office treatment in various elective procedures.



#### Features

- True fluid tissue matrix™
- Ready to use in the vial
- One-time treatment
- No tissue draw or spin down time



### ReVive® Membrane

Amniotic Membrane Allograft

Dehydrated amnion membrane for in-office treatment in various elective procedures.



#### Features

- Thinner, versatile membrane
- Adheres well without fixation
- Can be applied dry or wet
- Chorion-free

## OPHTHALMOLOGY



### OculoMatrix®

Amniotic Membrane Allograft

Dehydrated amniotic membrane designed for ophthalmology.



#### Features

- Square-based configurations
- Covers perimeter defects
- Two thicknesses available
- Ideal handling and adherence



### VisiDisc®

Amniotic Membrane Allograft

Dehydrated amniotic membrane designed for ophthalmology.



#### Features

- Round disc shapes
- Effectively covers the cornea
- Two thicknesses available
- Ideal handling and adherence



Flowable connective tissue matrix



True fluid graft in vial



Cryopreserved



Ambient (room) temperature



Membrane in sheet form



Dehydrated



Easy to cut



5 year shelf life

## PLACENTAL TISSUES • AN IDEAL SOURCE OF HUMAN ECM ALLOGRAFTS

Amniotic membranes and placental tissues are increasingly being used in a wide range of surgical applications, including general surgery,<sup>1,2</sup> corneal,<sup>3,5</sup> plastic surgery,<sup>6</sup> burns and wounds,<sup>7-13</sup> sports medicine,<sup>14-16</sup> foot and ankle,<sup>17</sup> spine and dura,<sup>18-20</sup> and nerve wrapping or dural covering<sup>21-24</sup> procedures. These tissues provide a range of clinical benefits over other advanced surgical and wound care coverings, allografts and biologic products, as they are shown to be immune privileged, without risk of graft failure or rejection which can lead to fibrosis;<sup>25-28</sup> provide an effective vapor barrier and gliding capability over the wound;<sup>29,30</sup> contain a high concentration of collagens, providing an effective biomechanical scaffold;<sup>31-34</sup> contain various growth factors, connective proteins, and TIMPs;<sup>32,34-39</sup> limit inflammation;<sup>40-42</sup> and reduce the likelihood of scar tissue formation.<sup>32,43-45</sup>

## QUALITY AND SAFETY

**HydraTek® Process** is a result of years of extensive research into human placental tissues and their application in a wide range of surgical and in-office procedures. This proprietary processing technology was developed to produce **the industry's most complete line of BioActive™ placental tissue allografts**, providing optimized configurations for all types of applications.

HydraTek® Process has been **independently validated** to effectively preserve the native placental **ExtraCellular Matrix (ECM)**, including the majority of **collagen** scaffolding components,<sup>46</sup> **growth factors**<sup>47</sup> and other key **BioActive™ molecules**,<sup>47</sup> while maintaining the **biomechanical structure**<sup>48</sup> and **immuno-suppressive** properties.<sup>49</sup>

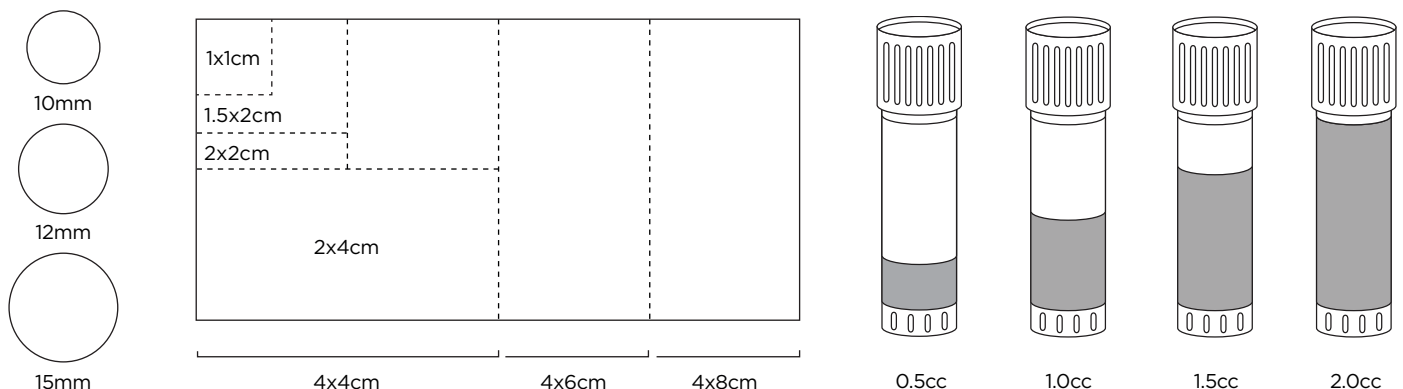
HydraTek® Process is designed to provide physicians with a distinct advantage in **handling and performance**, improve **biomechanical integrity and biological viability** and **eliminate potential damage** caused by other industry processing methods. Those other methods may include harsh chemicals, high-heat baking or lyophilization (freeze drying), which have been shown to denature proteins, cause collagen collapse, and/or disrupt the delicate tissue matrix and protein structure of these tissues.<sup>50-53</sup>

HydraTek® Process utilizes innovative technology to **scientifically control the moisture level** and better **preserve the natural structural integrity** of its amniotic and placental membrane products.<sup>48</sup> HydraTek® membranes are available in thin, thick and x-thick configurations, and provide improved structural integrity and handling characteristics.

For its unique flowable placental tissue matrix products, HydraTek® Process utilizes a proprietary preservation system to **encapsulate the biologic components** and **preserve the natural fluid consistency** of the connective tissue. HydraTek® flowable products are available in both cryopreserved and ambient (room) temperature storage options. The flowable graft allows precise targeting and delivery to the intended site.

HydraTek® products are derived from human placental tissues recovered from live, healthy U.S.-based donors. Tissue recovery and screening and all processing protocols are **performed according to FDA and tissue banking association standards**. All products have a validated five year shelf life. HydraTek® products are processed by Human Regenerative Technologies, LLC (HRT), a cGTPs and AATB accredited facility.

## PRODUCT SIZING GUIDE



\*Not all sizes available for all product lines. Please visit [skyebiologics.com](http://skyebiologics.com) for current product information.



## THE DIFFERENCE IS IN THE PROCESS

HydraTek® Process is an industry-leading processing technology that has been scientifically proven to effectively retain the key placental biologic components in our various product forms.

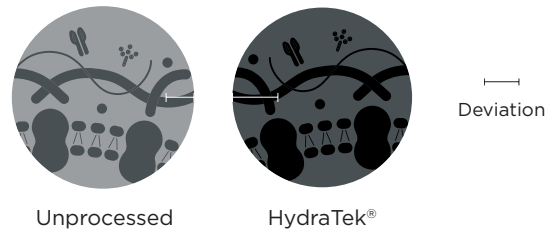
HydraTek® produces the largest line of placental products in market, with innovations across all product lines, including the industry's Original Fluid Connective Tissue Matrix™ and Original Ambient Flowable Tissue Matrix.™

## PROVEN TO BE IMMUNOSUPPRESSIVE<sup>49</sup>



HydraTek® products are scientifically proven to be Immuno-Suppressive,<sup>49</sup> actively suppressing an immune response. This is integral to preventing flare-up following application.

## PROVEN COLLAGEN CONTENT<sup>46</sup>

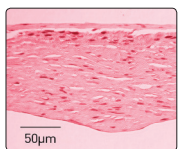


HydraTek® Process is scientifically proven to retain the majority of collagen content found in unprocessed placental tissues.<sup>46</sup> Collagens and other fibrous proteins provide a scaffold for proliferation.

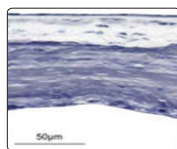
## GROWTH FACTORS & BIOACTIVE™ MOLECULES PRESERVED BY HYDRATEK® PROCESS<sup>47</sup>

	TIMP -1	TIMP -2	VEGF	TGF-β1	TGF-β2	TGF-β3	IL-4	PIGF	KGF	EGF	bFGF	PDGF -AA	PDGF -BB
Found in Natural Placental Tissues	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Found in HydraTek® Process Products	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

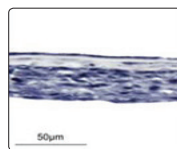
## IMPROVED STRUCTURAL INTEGRITY<sup>48</sup>



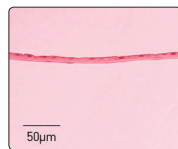
HydraTek® Thick



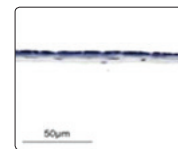
Competitor 1



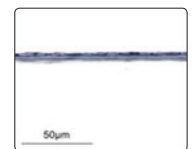
Competitor 2



HydraTek® Thin



Competitor 3



Competitor 4

HydraTek® utilizes a proprietary scientific technique for its dehydrated membranes, to lower moisture precisely to the optimal level and then turns off the process, producing 'dry membranes' with improved moisture, thickness and structural integrity. Other industry standard methods of dehydration, including lyophilization (freeze-drying) and heat-drying, may denature proteins and collapse the tissue structure.

THE POWER OF THE BODY.  
THE INNOVATION OF SCIENCE.®

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**310.796.5680**

**(M-F) 7:30AM - 5:00PM (PST)**

**orders@skyebiologics.com**

Contact us to place an order for your facility or office. Our client relations team is available for customer support and ordering. For additional product information, please visit **skyebiologics.com**.

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