

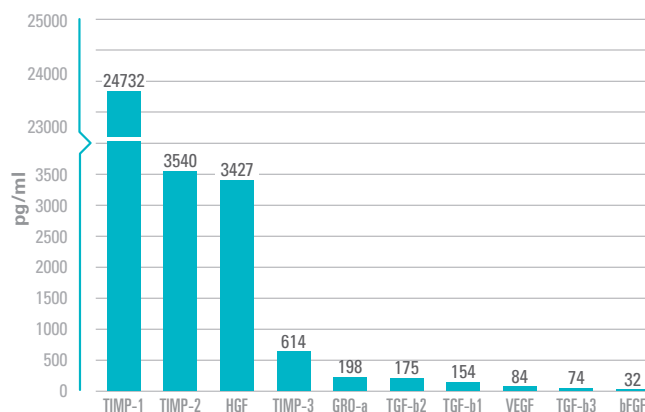
# CYGNUS<sup>®</sup>

## CRYO MAX

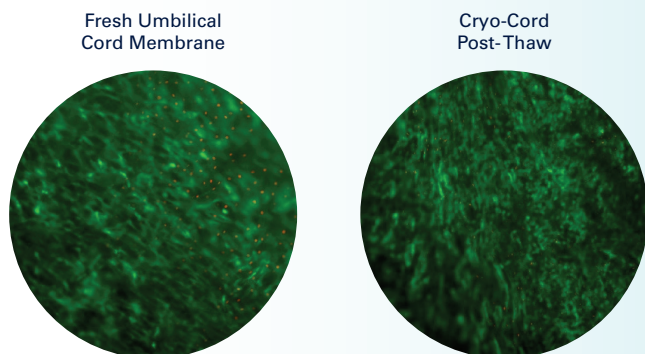
**CYGNUS<sup>®</sup> Cryopreserved Max umbilical cord membrane is an allograft that may be used as a soft tissue barrier and wound covering in numerous clinical applications. CYGNUS Cryopreserved Max retains the inherent properties of amniotic tissue including nutrient-rich growth factors, cytokines, and endogenous cells.<sup>1,2</sup>**

### ▶ CYGNUS CRYOPRESERVED MAX UMBILICAL CORD MEMBRANE FEATURES AND BENEFITS

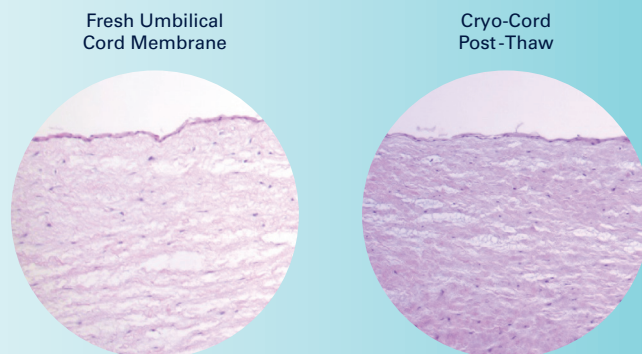
- Amniotic tissue acts as an immune-privileged protective barrier during fetal development.<sup>1</sup>
- CYGNUS Cryopreserved Max is applied as a soft tissue barrier and wound covering that helps provide mechanical protection while retaining endogenous growth factors (Figure 1).<sup>1,2,4</sup>
- VIVEX's propriety Integrity Processing™ preserves the inherent properties of amniotic umbilical cord membrane, maintaining levels of key extracellular matrix molecules, including proteins, carbohydrates, growth factors, and cytokines.
- CYGNUS Cryopreserved Max contains viable endogenous cells cryopreserved in a proprietary DMSO-free cryoprotectant (Figure 2).<sup>5</sup>



**Figure 1: Growth Factors in Cryopreserved Umbilical Cord Membrane<sup>5</sup>**



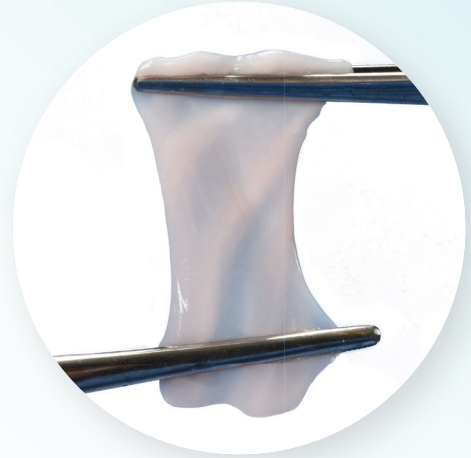
**Figure 2: Viable Cells in CYGNUS Cryopreserved Max<sup>5</sup>**



**Figure 3: CYGNUS Cryopreserved Max Histology<sup>5</sup>**

## SAFETY AND VERSATILITY

- Amniotic tissue is recovered from healthy mothers during live births
- CYGNUS Cryopreserved Max is aseptically processed in accordance with FDA regulations and AATB standards
- Amniotic tissue has been used for over 100 years with well-documented clinical success<sup>3</sup>
- No rinsing or decanting steps are required during preparation
- Storage at -65°C or colder



## POTENTIAL CLINICAL APPLICATIONS

- Spine & Neurosurgery
- Foot & Ankle
- Wound Care
- Burn Care
- Dermatology
- Ophthalmology
- Oral Surgery

## ▶ ORDERING INFORMATION

Product HCPCS Code: Q4170 (CYGNUS) per square centimeter

CODE	DESCRIPTION	SIZE
CUC020200	CYGNUS® Cryopreserved Max Umbilical Cord Membrane	2x2cm
CUC020400	CYGNUS® Cryopreserved Max Umbilical Cord Membrane	2x4cm
CUC030400	CYGNUS® Cryopreserved Max Umbilical Cord Membrane	3x4cm

VIVEX Biologics will use reasonable efforts to provide accurate and complete information herein, but this information should not be construed as providing clinical advice, dictating reimbursement policy or as a substitute for the judgment of a health care provider. It is the health care provider's responsibility to determine the appropriate treatment, codes, charges for services and use of modifiers for services rendered and to submit coverage or reimbursement-related documentation.

1. Rowlatt, U. (1979). Intrauterine wound healing in a 20-week human fetus. *Virchows Arch A Pathol Anat Histol*, 381(3), 353–361.
2. Coolen, N.A. et al. (2010). Comparison between human fetal and adult skin. *Archives of Dermatological Research*, 302(1), 47–55.
3. Fairbairn, N.G. et al. (2014). The clinical applications of human amnion in plastic surgery, 67 662-675.
4. Niknejad H, Peirovi H, Jorjani M, et al. Properties of the amniotic membrane for potential use in tissue engineering. *Eur Cell Mater*. 2008;15:88-89.
5. Data on file at VIVEX Biologics, Inc.



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