

RADICALLY SIMPLIFYING UMBILICAL CORD-DERIVED MSC PRODUCTION

ROOSTERVIAL™-hUC-MSC-XF

HIGH-VOLUME hMSCs
XENO-FREE | SCALABLE



RoosterBio®

Radically Simplifying Use of MSCs



An Umbilical Cord-derived hMSC System designed to support today's translational research and product development.

RoosterVial-hUC-XF contains perinatal mesenchymal stem/stromal cells (MSCs) isolated from the perivascular Wharton's Jelly region of the human umbilical cord. Reach new levels of hMSC productivity when used alongside RoosterNourish™-MSC-XF and provided expansion protocols as part of a complete bioprocess system - *built to meet the quality and volume needs of today's Regenerative Medicine industry.*

- > Robust and Reproducible
- > Simple. Streamlined. Scalable.
- > cGMP Compatible Processes
- > Industry Leading Characterization

Patented technology with licenses available for specific therapeutic indications

A STEP-CHANGE IN hMSC PRODUCTIVITY WITH ROOSTERBIO'S UMBILICAL CORD-DERIVED hMSC 2D AND 3D BIOREACTOR SYSTEMS

Generate >5 Billion hMSCs in 8 days with RoosterNourish-MSC-XF

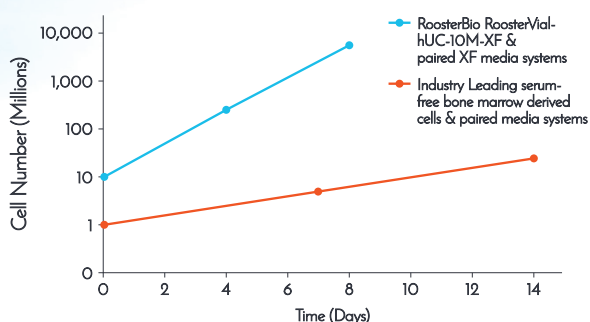


Fig 1(a)

Scale-up to Next Level 3D Bioreactor hMSC Efficiencies

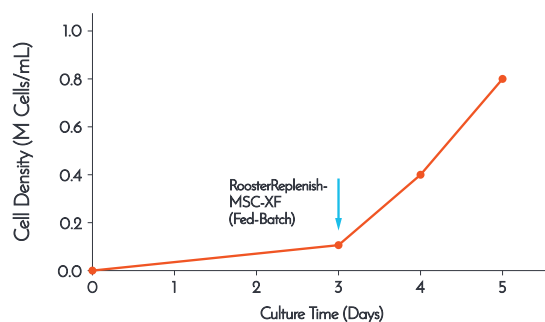


Fig 1(b)

Fig 1: (a) RoosterBio xeno-free (XF) hUC-MSCs cultured in RoosterNourish-MSC-XF (KT-016) will generate >5 Billion cells in 8-10 days using a 2D batch-fed process. (b) Scale-up to new levels of MSC efficiency yields, achieving >750 million cells/L with RoosterBio hUC-MSCs alongside RoosterBio's 3D Bioreactor fed-batch culture system using RoosterReplenish™-MSC-XF. ****Note: Total cell yield is donor-dependent.**



RoosterVial-hUC-XF manufactured and sold by RoosterBio, INC and supported by licensed technology from Tissue Regeneration Therapeutics Inc. (TRT) core technology and patent family: US 8,790,923; US 8,278,102; US 7,547,546; US 9,611,456; US 9,611,456; US 8,481,311; US 9,611,456.

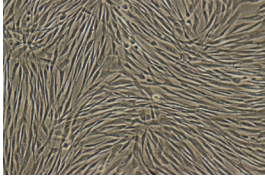
ACCESS AND LICENSE FEES MAY APPLY. PLEASE CONTACT YOUR REPRESENTATIVE FOR MORE INFORMATION.

Have reproducibility and confidence in your Perinatal MSC product development.

ROOSTERBIO'S INDUSTRY LEADING hUC-MSC CHARACTERIZATION

Supported by Quality documentation complete with donor and lot specific hMSC identity and functional characterization

hUC-MSCs Derived in RoosterNourish™-MSC-XF Exhibit Normal hMSC Morphology

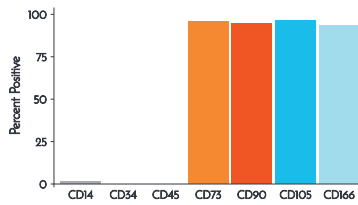


hUC-MSCs

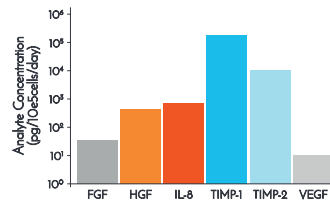
Fig 2: hMSCs isolated in XF media. Cells reached confluency after 4 to 5 days of culture.

Umbilical Cord-derived hMSC Identity and Functional Performance

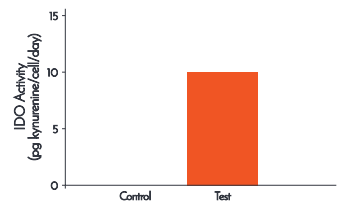
I. SURFACE MARKER EXPRESSION



II. CYTOKINE SECRETION

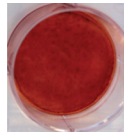


III. IDO ACTIVITY

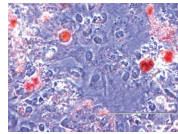


IV. TRILINEAGE DIFFERENTIATION POTENTIAL

(A) Osteogenesis



(B) Adipogenesis



(C) Chondrogenesis

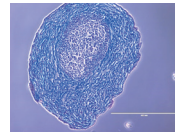


Fig 3: hUC-MSCs manufactured using RoosterBio's cGMP compatible processes characterized for (I) hMSC surface marker expression, (II) angiogenic cytokine secretion, (III) IDO activity, and (IV) Trilineage differentiation.

Catalog No.	Product	Qty	Unit Size & Brief Description
ROOSTERKITS			
K40105	RoosterKit™-hUC-1M-XF	1 kit	1 million xeno-free (XF) cryopreserved cells + 1 KT-016 XF media kit
INDIVIDUAL VIALS			
C43002UC	RoosterVial™-hUC-10M-XF	1 vial	10 million xeno-free (XF) cryopreserved cells
ROOSTERBANKS			
K40101	RoosterBank™-hUC-1M-XF	1 bank	5 vials of 1 million XF cryopreserved cells
K40102	RoosterBank-hUC-1M-XF	1 bank	10 vials of 1 million XF cryopreserved cells
K40103	RoosterBank-hUC-10M-XF	1 bank	5 vials of 10 million XF cryopreserved cells
K40104	RoosterBank-hUC-10M-XF	1 bank	10 vials of 10 million XF cryopreserved cells

APPLICATIONS FOR ROOSTERVIAL-hUC-MSC-XF

Cell Therapy | Regenerative Medicine | Tissue Engineering | Stem Cell-Derived Materials

PERFORM HIGH-IMPACT, TRANSLATIONAL hUC-MSC RESEARCH & PRODUCT DEVELOPMENT



RoosterBio[®]
Radically Simplifying Use of MSCs

ROOSTERBIO.COM | 301.200.5366 | INFO@ROOSTERBIO.COM