

Product Specification

| Microcarrier | Material | Structure | Dissolvable | Bead Size (µm) | Surface Area (cm ² /g) | Bead Number (particles/mg) | Pore Size (µm) | Packaging | Application Field |
|--------------|----------------------|--------------------|-------------|----------------|-----------------------------------|----------------------------|----------------|---|--|
| W01 | Porcine Gelatin | Macroporous sphere | Yes | 140-330 | 8300 | 4200 | 30-50 | Sterile Tablets Sterile Powder in Closed System | Mesenchymal stromal cells and exosomes |
| W02 | Porcine Gelatin | Macroporous sphere | Yes | 280-450 | 5000 | 1100 | 30-50 | Sterile Tablets Sterile Powder in Closed System | Mesenchymal stromal cells and exosomes |
| V01 | Bovine Gelatin | Macroporous sphere | Yes | 140-480 | 7500 | 2200 | 30-50 | Non-sterile power | Human and animal vaccines, i.e. Vero, MDCK, MRC5 |
| G02 | Bovine Gelatin | Macroporous sphere | Yes | 110-380 | 5900 | 2400 | 30-50 | Sterile Tablets Sterile Powder in Closed System | Lenti-virus, Adeno-associatedvirus, oncolytic virus, i.e. 293T cells |
| CW01 | Recombinant Collagen | Macroporous sphere | Yes | 120-300 | 6300 | 4300 | 20-40 | Sterile Tablets Sterile Powder in Closed System | Mesenchymal stromal cells and exosomes |

Bead Size: D5-D90, in DI water | Bead size data are representative average values of at least 3 batches of products rounded up to the nearest ten.

Surface Area: $\sum_{n=0}^{100} (X \times \frac{n}{100} \times \pi D_n)$ | Surface area and bead number data are representative average values of at least 3 batches of products rounded up to the nearest hundred.

Ordering Information

| Catalog No. | Product Name | Specification |
|----------------|--|-----------------------------------|
| W01-200 | 3D TableTriX® Microcarriers W01 (Tablets) | 2g (1g/bottle, 2 bottles/box) |
| W01-2.66-2.66g | 3D TableTriX® Microcarriers W01 (Powder) 2.66g | 2.66g/bottle, fully closed system |
| W01-6-6g | 3D TableTriX® Microcarriers W01 (Powder) 6g | 6g/bottle, fully closed system |
| W01-10-10g | 3D TableTriX® Microcarriers W01 (Powder) 10g | 10g/bottle, fully closed system |
| W01-20-20g | 3D TableTriX® Microcarriers W01 (Powder) 20g | 20g/bottle, fully closed system |
| W02-200 | 3D TableTriX® Microcarriers W02 (Tablets) | 2g (1g/bottle, 2 bottles/box) |
| W02-10-10g | 3D TableTriX® Microcarriers W02 (Powder) 10g | 10g/bottle, fully closed system |
| V01-10-10g | 3D TableTriX® Microcarriers V01-10g | 10g, Powder |
| V01-100g | 3D TableTriX® Microcarriers V01-100g | 100g, Powder |
| V01-500g | 3D TableTriX® Microcarriers V01-500g | 500g, Powder |
| G02-200 | 3D TableTriX® Microcarriers G02 (Tablets) | 2g (1g/bottle, 2 bottles/box) |
| G02-10-10g | 3D TableTriX® Microcarriers G02 (Powder) 10g | 10g/bottle, fully closed system |
| CW01-100 | 3D RecomTriX® Recombinant Collagen Microcarriers CW01 (Tablets) | 1g ((10mg/tab.X100 tab)/box) |
| CW01-6-6g | 3D RecomTriX® Recombinant Collagen Microcarriers CW01 (Powder) 6g | 6g/bottle, fully closed system |
| CW01-10-10g | 3D RecomTriX® Recombinant Collagen Microcarriers CW01 (Powder) 10g | 10g/bottle, fully closed system |
| CW01-20-20g | 3D RecomTriX® Recombinant Collagen Microcarriers CW01 (Powder) 20g | 20g/bottle, fully closed system |



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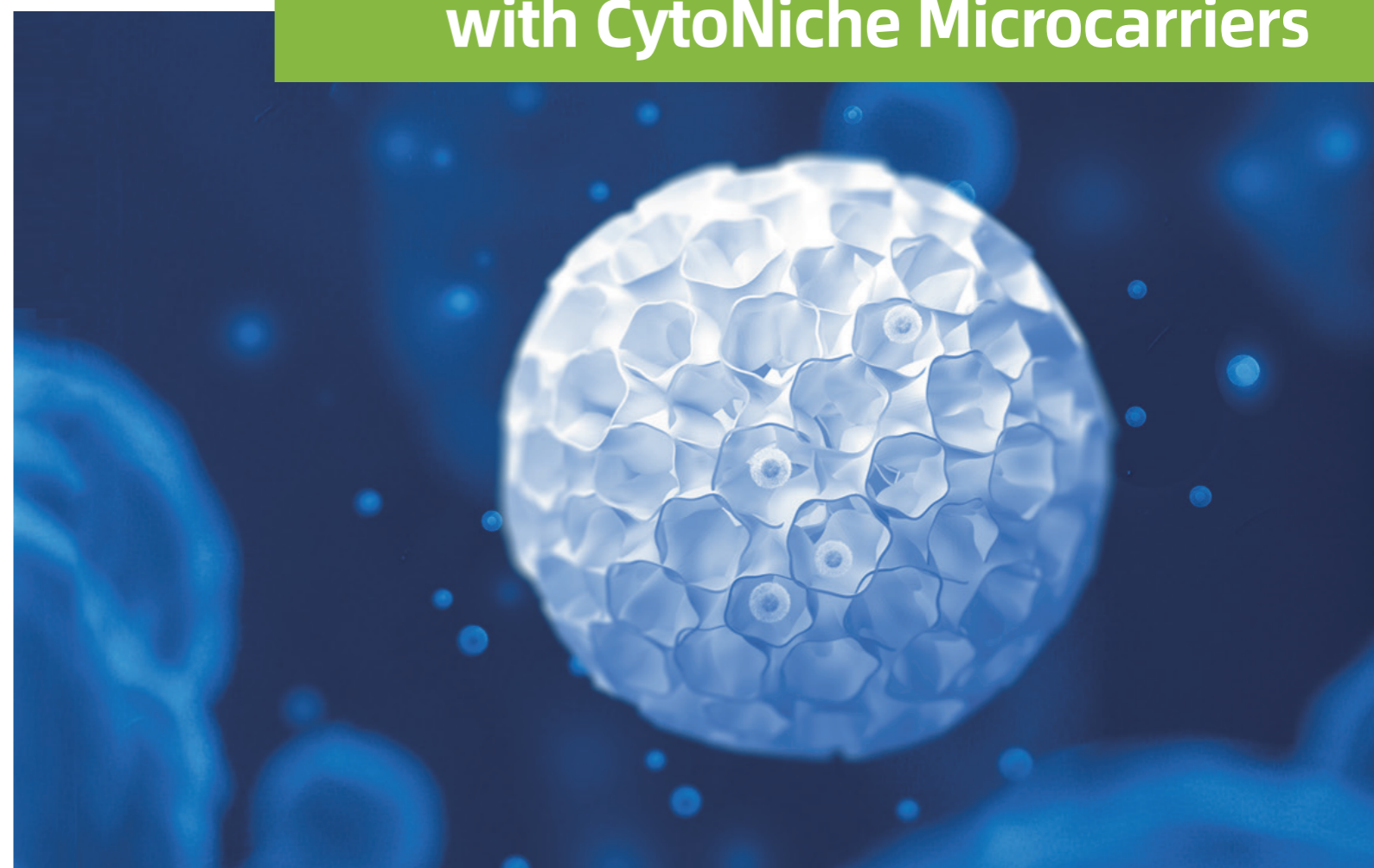
E-mail: marketing@cytoniche.com

Web: en.cytoniche.com

Address: 1 FUSIONOPOLIS LINK, #06-06, NEXUS-@ONE-NORTHSINGAPORE 138542



Unlock the Future of Cell Therapy with CytoNiche Microcarriers



- ✓ **FDA DMF Listed**
- ✓ **Fully Dissolvable, 100% Cell Recovery**
- ✓ **Scale from R&D to 10B Cells**

CytoNiche Biotech Pte. Ltd.

Why Choose Us

Leading the Way with CytoNiche's Next-Gen Technology



Product Highlights:

1. 3D TableTriX™/RecomTriX™:

- Highly porous (>90%) & elastic - mimic natural microenvironments
- Fully dissolvable with zero residues

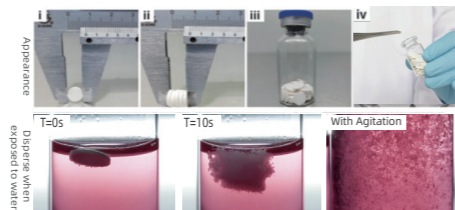
2. 3D FloTriX™ Digest:

- Gentle dissolution at 37°C - 100% cell recovery, no harsh chemicals

Engineered for Excellence: The CytoNiche Difference

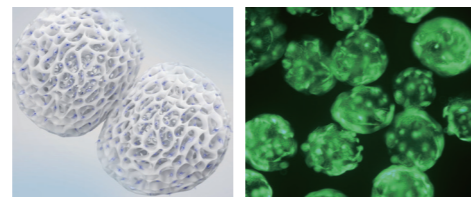
Instant Setup - Ready in Seconds

- Sterile, ready-to-Use
- From tablet to 10,000 microcarriers in seconds



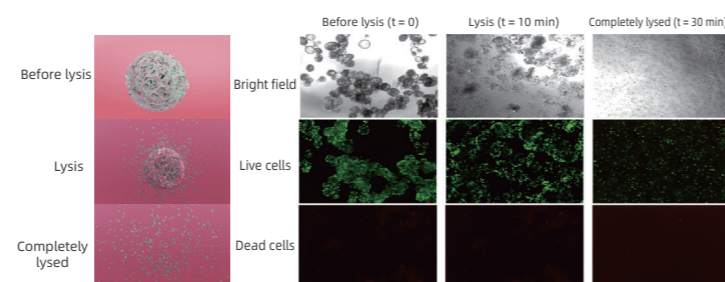
Smarter Growth - Maximize Yield

- Shear-safe design, shields cells from stress ($<10\text{ s}^{-1}$)
- >90% cell confluence - Biomimetic surface for rapid growth



Effortless Harvest - Zero Compromise

- 37°C enzymatic lysis, no mechanical scraping or toxic chemicals
- 100% recovery - Intact cells, zero residual carriers



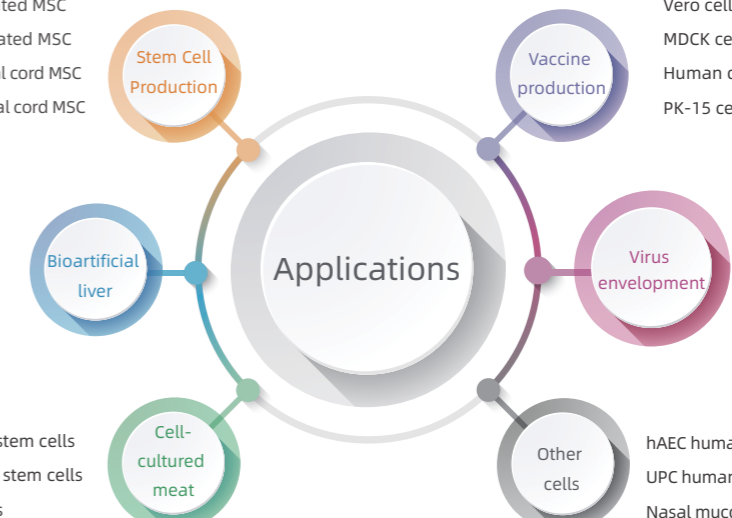
Your Success, Our Mission

Powering Breakthroughs Across Industries

Types of Cells Tested

Human umbilical cord MSCs
Human adipose MSCs
Human dental pulp MSCs
Human bone marrow MSCs
Human placental MSCs

Human amniotic MSCs
ESC-differentiated MSC
iPSC-differentiated MSC
Sheep umbilical cord MSC
Bovine umbilical cord MSC



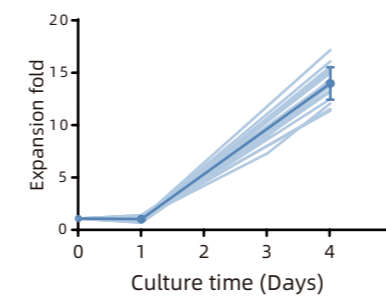
Vero cell line
MDCK cell line
Human diploid cells (MRC-5, 2BS)
PK-15 cell line

Vero cell line
293T cell line
2923E cell line

hAEC human amniotic epithelial stem cells
UPC human kidney adult stem cells
Nasal mucosa stem cells
HUVEC human umbilical vein endothelial cells
HDF human dermal fibroblasts
3T3 cell line
Neurons

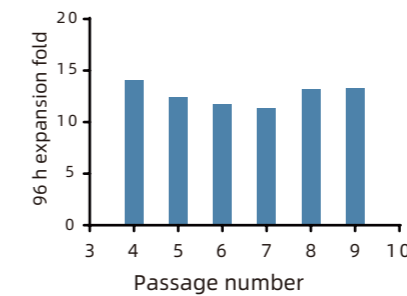
Application Case (Mesenchymal Stromal Cells)

Expansion of human umbilical cord MSCs



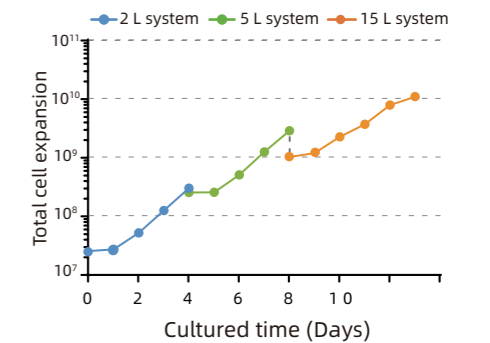
Multiple cases have shown that MSCs can expand 10-16 folds on 3D TableTriX™ Microcarriers.

Continuous passage of human umbilical cord MSCs



Expansion remains stable at 12-14 folds across 6 continuous subcultures.

Continuous expansion curve of human umbilical cord MSCs



Produce 10 billion cells per batch using 3-phase scale-up in bioreactors using 3D TableTriX™ Microcarriers & 3D FloTriX™ technology.