

Serum-Free hMSC (human Mesenchymal Stromal Cell) Proliferation Control Medium

# Xyltech™ MSC-02 Animal-Free

Serum-Free hMSC Growth Medium

# Xyltech™ Growth MSC

A novel cell culture system to control cell proliferation rate



## Serum-Free hMSC Proliferation Control Medium

### Xyltech™ MSC-02 Animal-Free

- Human MSCs culture medium for suppressing cell proliferation rate while maintaining the cell properties
- Rapid recovery of cell proliferation after switching to the growth medium
- This medium is Animal-free (no animal-derived ingredient)
- This product does not contain glucose
- No coating required on culture vessels

## Serum-Free hMSC Growth Medium

### Xyltech™ Growth MSC

- Human MSCs culture medium for cell proliferation while maintaining the cell properties
- Xyltech™ Growth MSC Medium comes with the media supplement “Xyltech™ Growth MSC Supplement AF” to the basal medium
- This product is Animal-free (no animal-derived ingredient)
- No coating required on culture vessels



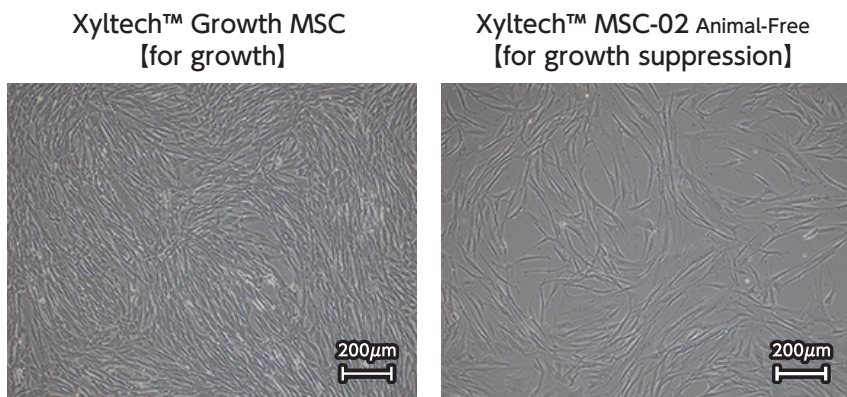
We recommend using products Xyltech™ and Xyltech™ Growth as a combination.



# Example of growth control for hMSCs culture



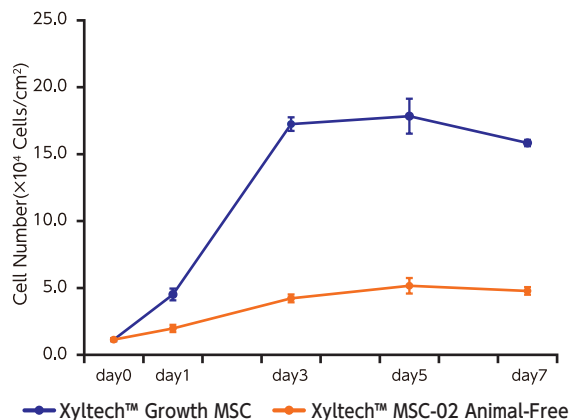
## Cell Morphology



**Figure 1. Morphology of normal human adipose-derived MSCs (hADSCs)**

Phase contrast microscope images of normal hADSCs after 3 days culture with Xyltech™ Growth MSC or Xyltech™ MSC-02 Animal-Free.

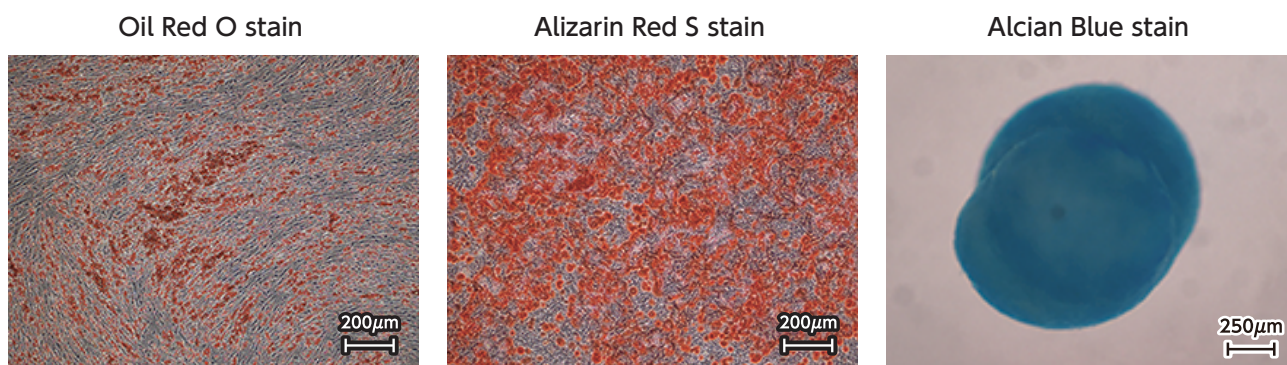
## Cell Proliferation Profiling



**Figure 2. Changes in the cell number of hADSCs**

The cell number of normal hADSCs cultured using Xyltech™ Growth MSC (for cell proliferation, blue) and Xyltech™ MSC-02 Animal-Free (for cell proliferation suppression, orange) was determined.

## Cell Differentiation



**Figure 3. Evaluation of differentiation ability of normal hADSCs**

Differentiation induction of normal hADSCs into adipocytes (left), osteoblasts (middle), and chondrocytes (right). Prior to the differentiation induction, hADSCs were cultured with Xyltech™ MSC-02 Animal-Free medium for 3 days.

Cat. No.	Product name	Features / Applications	Volume
10402	Xyltech™ MSC-02 Animal-Free	Serum-free culture medium for human Mesenchymal Stromal Cells [Cell proliferation suppression] (Animal-Free)	100ml (P)
10411	Xyltech™ Growth MSC Medium	Serum-free culture medium for human Mesenchymal Stromal Cells [Cell proliferation] Basal culture medium	500ml (P)
10413	Xyltech™ Growth MSC Supplement AF	Serum-free culture medium for human Mesenchymal Stromal Cells [Cell proliferation] Supplement (Animal-Free)	10ml (P)

These products are research reagents and not intended for human or animal treatment or diagnostic purposes. (P) PET bottle

## ブルボン再生医学研究所

Bourbon Biomedical Advanced Research Laboratories, Inc.  
 1-3-1, Ekimae, Kashiwazaki City, Niigata Pref.,  
 945-0055 JAPAN  
 E-mail support@bourbon-barl.co.jp  
 URL https://www.bourbon-barl.co.jp/eg/

## Official Distributor for North America

### Iwai North America Inc.



Tel: 650-486-1541  
 orders@iwai-chem.com  
 www.iwaichem.com