

Serum-Free hMSC (human mesenchymal stem cell) Proliferation Control Medium

# Xyltech™ MSC-01 Xeno-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-01 Xeno-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 xeno-free (Contains only human-derived components, no animal derivatives)
- This product does not contain glucose

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 XF” to the basal medium
- This product is xeno-free



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

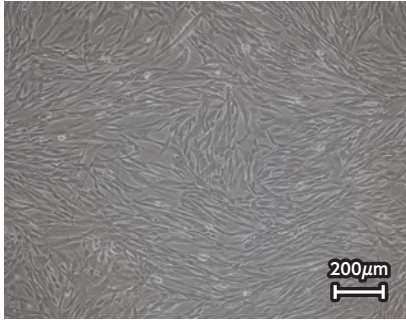


# Example of growth control for hMSCs culture

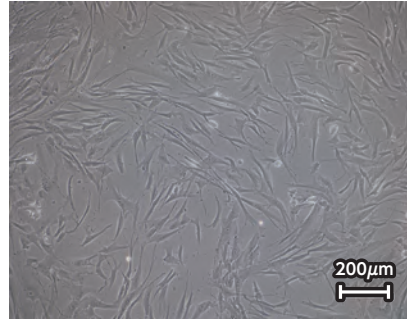


## Cell Morphology

Xyltech™ Growth MSC  
[for growth]



Xyltech™ MSC-01 Xeno-Free  
[for growth suppression]

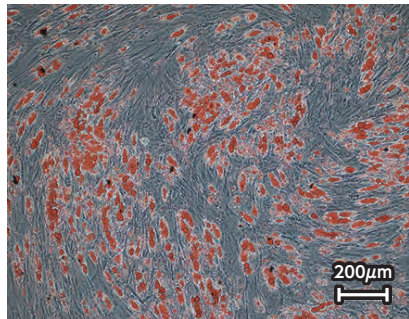


**Figure 1. Morphology of normal human adipose-derived MSCs (hADSCs)**

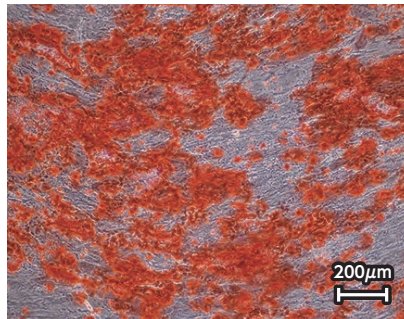
Phase contrast microscope images of normal hADSCs after 3 days culture with Xyltech™ Growth MSC or Xyltech™ MSC-01 Xeno-Free.

## Cell Differentiation

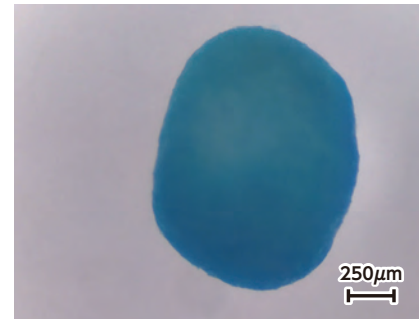
Oil Red O stain



Alizarin Red S stain



Alcian Blue stain

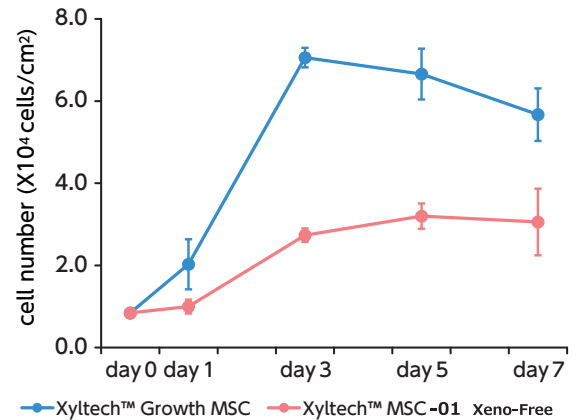


**Figure 3. Evaluation of differentiation ability of normal hADSCs**

Differentiation induction of normal hADSCs into adipocytes(left), osteoblasts(middle), and chondrocytes (right). Prior to the differentiation induction, hADSCs were cultured with Xyltech™ MSC-01 Xeno-Free medium for 3 days.

It was confirmed that Xyltech™ MSC-01 Xeno-Free medium can suppress cell proliferation while maintaining cell properties of the cells growing in Xyltech™ Growth MSC (growth medium).

## 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-01 Xeno-Free (for cell proliferation suppression, pink) was determined.

Cat. No.	Product name	Features / Applications	Volume
10401	Xyltech™ MSC-01 Xeno-Free	Serum-free culture medium for human Mesenchymal Stem Cells [Cell proliferation suppression]	100ml(P)
10411	Xyltech™ Growth MSC Medium	Serum-free culture medium for human Mesenchymal Stem Cells [Cell proliferation] Basal culture medium for MSCs	500ml(P)
10412	Xyltech™ Growth MSC Supplement XF	Serum-free culture medium for human Mesenchymal Stem Cells [Cell proliferation] Supplement (Xeno-Free)	10ml(P)

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

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