

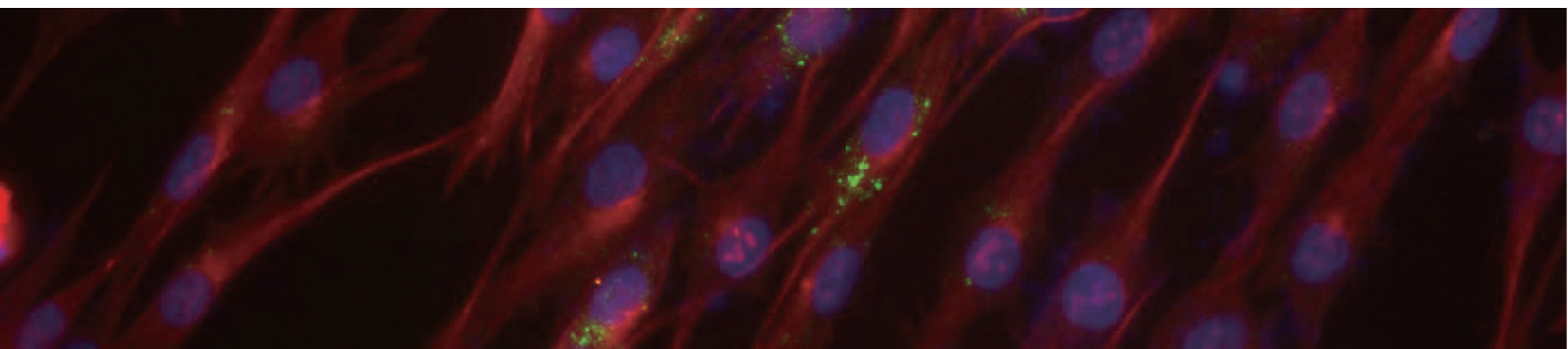


**DuoGenic  
StemCells  
corporation**



# AllPhase human MSC culture medium

A complete xeno-free culture medium for growth and expansion of hMSCs

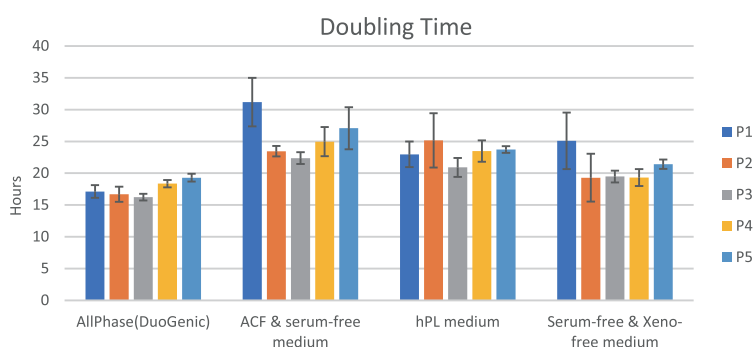


- **ISO13485 certified**
- **GMP grade**
- **Master File available**
- **Suitable for BM-MSC, ADSC and UC-MSC**
- **Coating-free**
- **Doubling time < 30 hours within P1-P5**
- **Suitable for 3D Culture**

## AllPhase human MSC culture medium

is a complete xeno-free medium for supporting the growth and expansion of human mesenchymal stem cells (hMSCs), including bone marrow mesenchymal stem cell (BM-MSC) adipose derived stem cell (ADSC) and umbilical cord derived mesenchymal stem cell (UC-MSC).

AllPhase MSC culture medium makes cells expansion more efficient without any coating. Each AllPhase MSC culture medium lot is ISO13485 certified, GMP compliant, FDA Master File (MF) available and controlled by rigorous quality procedures.



**Figure 1. AllPhase human MSC culture medium enables an excellent proliferation of hMSCs.**

AllPhase culture medium has a better performance of proliferation than other commercial serum-free media.

## Product information

Cat. #	Product Information	Qty
AML500-S	AllPhase - MSC Supplement, for 500 mL, RUO Grade	1 vial, 10 mL
AGA1000-S	AllPhase human MSC supplement, for 1L, GMP Grade	1 bot, 50mL



啟新生物科技股份有限公司  
CREATIVE LIFE SCIENCE CO., LTD.

台北

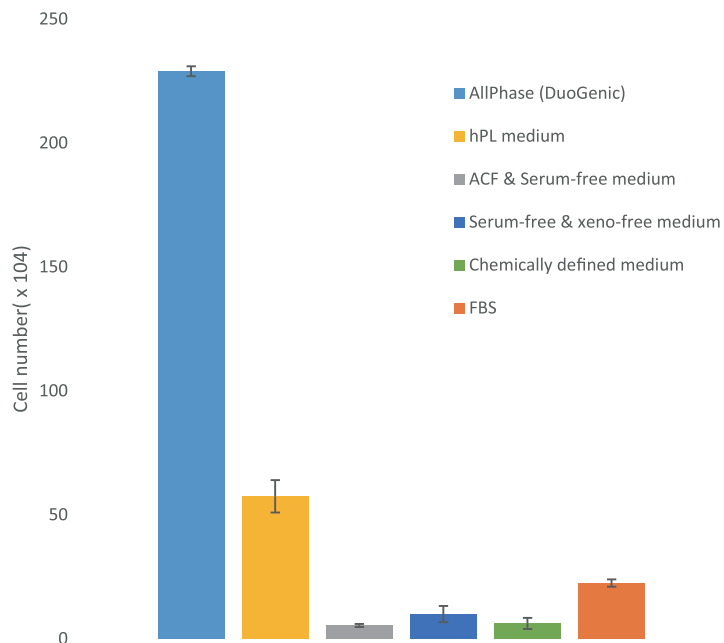
TEL : (02) 2298-1823  
FAX : (02) 2298-8100

台中

TEL : (04) 2355-1823  
FAX : (04) 2355-1827

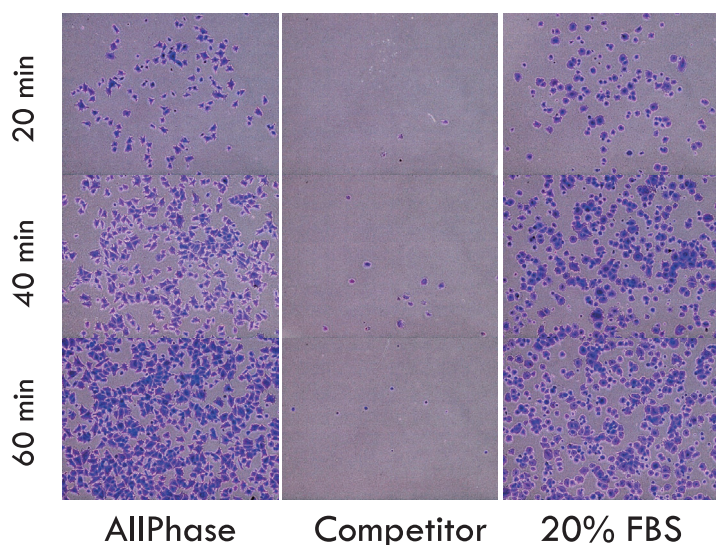
高雄

TEL : (07) 821-3076  
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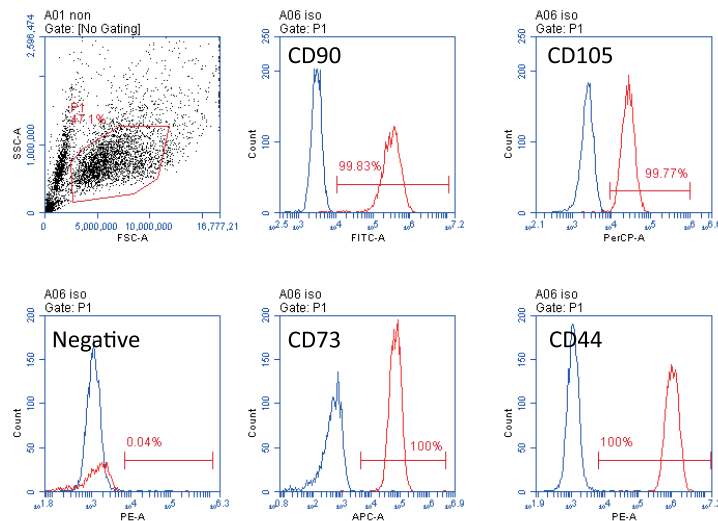
**Figure 2. Primary culture performance**

Total number of cells isolated from 6 cm sections of umbilical cord. The tissue sections were minced and left undisturbed for 14 days on 100 mm TC treated or CellBind culture plates.



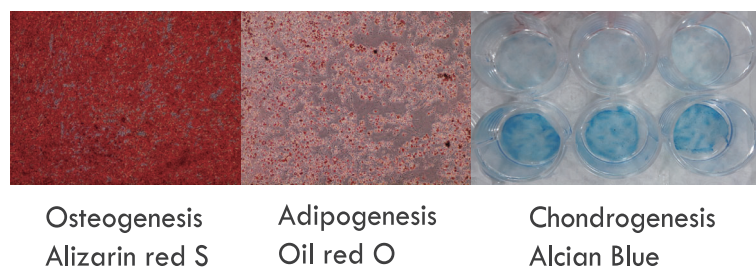
**Figure 3. Coating free adhesion capability**

Human MSC cultured in AllPhase have similar adhesion capability in cell culture plate compared to serum-containing medium. Cells were stained with crystal violet when 20, 40 and 60 minutes after seeding.



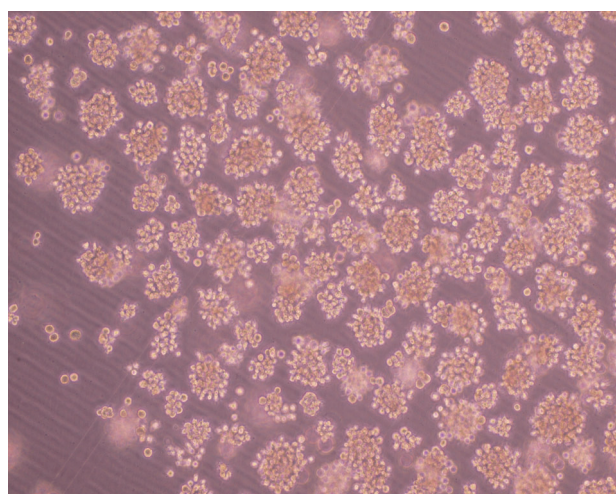
**Figure 4. Flow cytometric analysis of hMSCs cultured in AllPhase MSC culture medium.**

Human UC-MSC (P3) were stained for MSC surface markers CD90, CD44, CD105, CD73 and the MSC negative markers (MSC-).



**Figure 5. hMSCs cultured in AllPhase MSC culture medium retain strong differentiation potential.**

Human MSC differentiate into osteoblasts (Alizarin red S staining), adipocyte (Oil red O staining) and chondrocyte (Alcian Blue staining).



**Figure 6. AllPhase suitable for 3D culture.**

Human MSC can be expanded under 3D culture condition without microcarrier when cultured with AllPhase MSC culture medium.