Human Platelet Lysate (hPL)

Human Platelet Lysate (hPL) is a xeno-free supplement that supports robust growth of human cells, including mesenchymal stem cells (MSCs). Derived from human platelets, it contains essential growth factors and cytokines, offering a safer alternative to fetal bovine serum (FBS).

Key Benefits

- Xeno-free composition
- Rich in essential growth factors
- Preserves MSCs morphology
- Supports MSCs and immune cells growth
- Regulatory compliance
- Full Traceability and Safety

FAQ

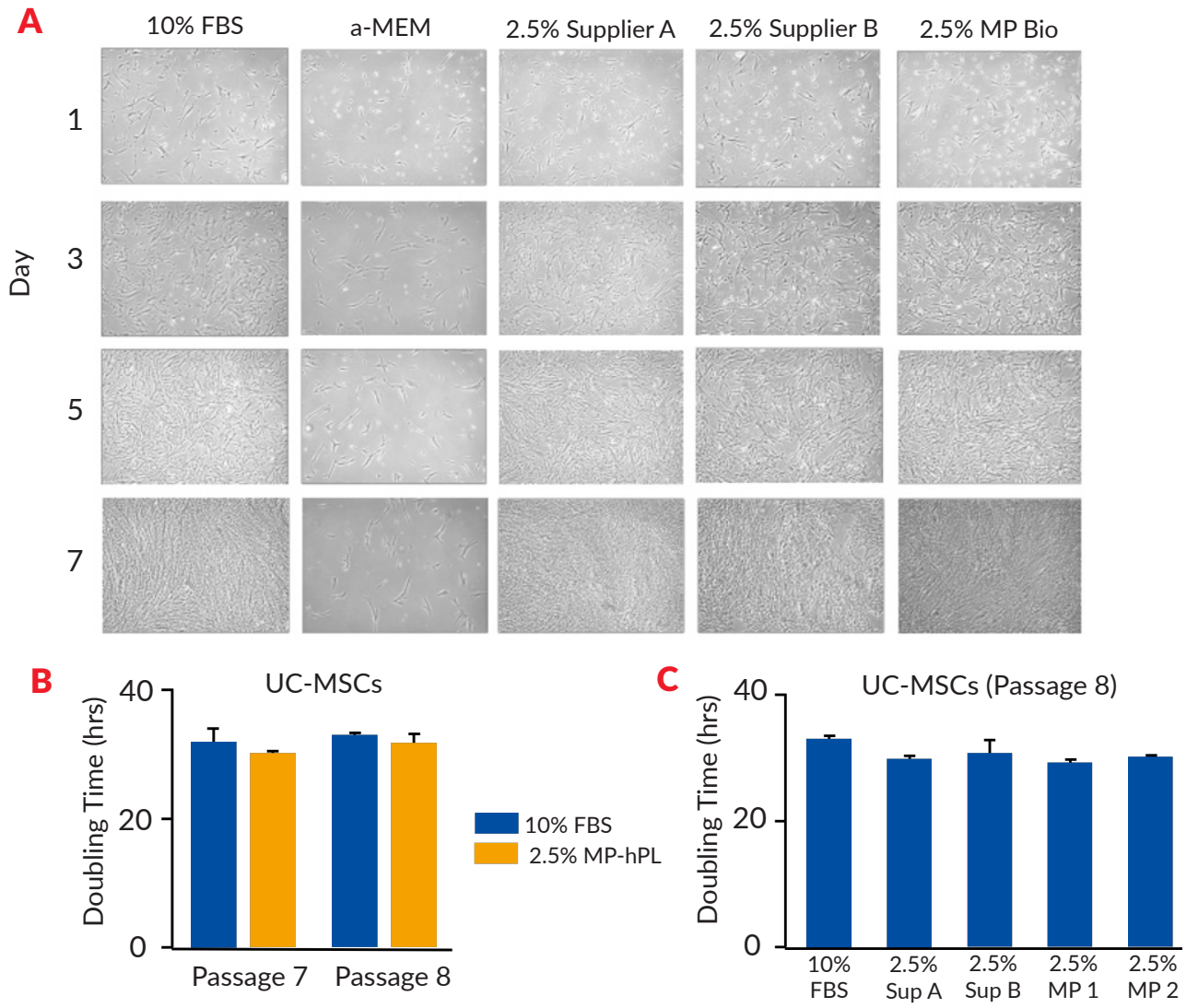
1. Why is hPL used instead of FBS in cell culture?
hPL promotes faster cell growth, reduces variability, and avoids animal components.

2. What type of medium should I use with hPL?
Use a basal medium like RPMI 1640 (for immune cells), a-MEM, DMEM, or F-12.

3. Should I filter hPL before use?
No, filtering may remove critical growth factors.

4. Can hPL be used with immune cells?
Yes, it has been sucessfully tested in place of AB Serum for NK cell culture.

Performance Data



Human Platelet Lysate Supports Robust and Reproducible Expansion of Human umbilical cord-derived mesenchymal stem cells (UC-MSCs)

A. UC-MSCs cultured for 7 days in five different media conditions showed robust expansion and healthy morphology with 2.5% MP Biomedicals hPL, compared to 10% FBS or α-MEM.

B. At passages 7 and 8, cells cultured with MP Biomedicals hPL consistently exhibited shorter doubling times compared to those grown in FBS, indicating enhanced proliferative capacity.

C. At passage 8, MP Biomedicals hPL showed the fastest growth and lowest variability among suppliers, highlighting its strong performance and consistent quality.

Conclusion: MP Biomedicals hPL is a high-performance, xeno-free solution for consistent and reproducible UC-MSCs expansion.

Ready to *moooove* on from FBS?

Product Name	Catalog No.	Pack Size
Human Platelet Lysate (Heparin-Free)	08810211	50 mL
	08810212	100 mL
	08810213	500 mL

MP Biomedicals
America: 800 854 0530 | custserv.na@mpbio.com
APAC: +65 6775 0008 | custserv.ap@mpbio.com
EUROPE: 00800 7777 9999 | custserv.eur@mpbio.com