



EV-UP™ EV PRODUCTION MEDIUM FOR MSC CULTURE MEDIUM AND ITS SUPPLEMENT

INTRODUCTION

EV-Up[™] is a culture medium specifically designed for the effective production of exosomes (EVs) from mesenchymal stem cells (MSC). The medium is a set composed of the medium 'EV-Up[™] EV Production Basal Medium for MSC, AF' and its supplement 'EV-Up[™] MSC EV Production Supplement, AF'. These products are serum-free and animal component-free and applicable to various growth media.

- Features

- + Better EV yield than serum media
- + Highly reproducible
- + Serum-free and animal-free
- + Maintains high cell viability
- + Produces EVs with high activity
- + Applicable to various growth media

PROTOCOL

Applicable Samples

- + Bone marrow-derived MSC
- + Adipose-derived MSC
- + Umbilical cord-derived MSC



The collected EVs can be isolated by the PS affinity method. By utilising this kit, EVs are captured specifically by phosphatidylserine (PS)-binding proteins in presence of metal ions. The captured EVs can be released afterwards with high purity by adding chelating agents such as EDTA.

ORDERING INFORMATION

WAKO CODE	PRODUCT NAME	STORAGE CONDITION	PACKAGE SIZE
053-09451	EV-Up™ EV Production Basal Medium for MSC, AF NEW	Keep at 2-10 °C	95 mL
298-84001	EV-Up™ MSC EV Production Supplement, AF ^{NEW}	Keep at -20 °C	for 100 mL

CELL VIABILITY

After the expansion of human bone marrow-derived MSC in serum containing media, the media was transferred to EV-Up[™] Medium and cultured for five days to produce EVs. MSC cultured in EV-Up[™] Medium produced EVs without affecting the MSC viability and comparable high survival rate to conventional DMEM + 10% EV depleted FBS was obtained.



MSC cultured in EV-Up[™] Medium released 2.6 times more EVs than in DMEM + 10% EV depleted FBS. EV-Up[™] Medium produces EVs with comparable high MSC survival rate.

ANTI-FIBROTIC EFFECT

5×10⁸ particles/mL of EVs isolated from various media supernatant by the PS affinity method were added to normal human fetal lungdiploid fibroblasts cells (TIG3) that were stimulated with TGF-β. The fibrotic marker (collagen III and α-SMA) gene expression was quantified by RT-PCR.



MSC EVs produced in EV-Up[™] Medium decreased the gene expression of fibrotic markers Collagen III and aSMA.

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