biowest
The Serum Specialist

Fetal Bovine Serum
Exosome Depleted

LEAVE NOTHING TO CHANCE

Biowest can offer you the best alternative to reduce time, effort and variability in your experiments with exosome depleted FBS :

- Original animal serum depletion system
- ≥ 95 % depletion of exosome (guaranteed minimum)
- No modification on the cell growth promotion
- No significant variation in physico-chemical analyzes
- Ideal solution for exosome & cell communication research

Exosome depleted serum is treated with our proprietary ultrafiltration method. This treatment depletes the microvesicles naturally present in the serum. The depletion rate is measured by a nanoparticle tracking analysis apparatus (NTA using the NanoSight NS300 apparatus from Malvern).

Ordering Information

Cat N°	Product Name
S181M-100	FBS South America, exosome depleted, 100mL
S181M-500	FBS South America, exosome depleted, 500mL

Please visit ***www.biowest.net*** for more information

www.biowest.net
2, rue du Vieux Bourg, 49340 NUAILLÉ
Tel.: (+33) 241 464 242
Email: biowest@biowest.net

Exosomes are extracellular vesicles released from the cells by the plasma membrane. The Biological significance of these structures is the most important issue in exosome research. Fetal Bovine Serum is commonly used to supplement cell culture medium and it naturally possesses exosomes. The exact biological functions of these microvesicles is yet unknown but they can interfere with the exosomes derived from the cultured cells. Currently researchers use time consuming and less effective alternatives to deplete the exosomes from the serum.

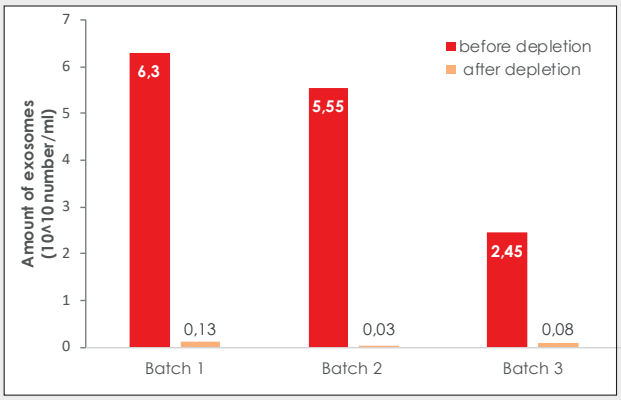

Figure 1 : Amount of Exosomes from different batches of FBS before and after depletion.
Efficiency of treatment on FBS is independant of the batches.

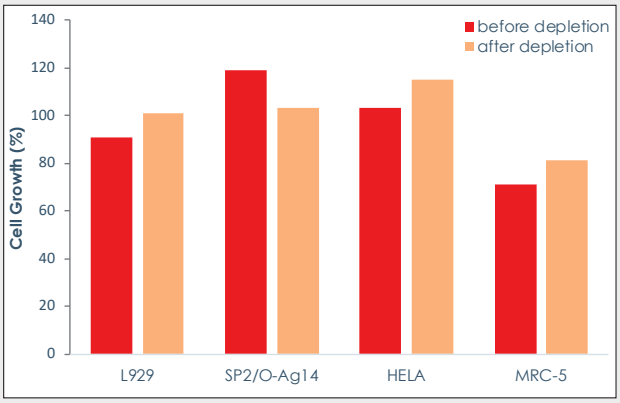

Figure 2 : Comparison of cell growth on different cell lines from one batch of FBS. The cell growth results were obtained by an internally validated method.
Depletion treatment doesn't impact the cell growth.

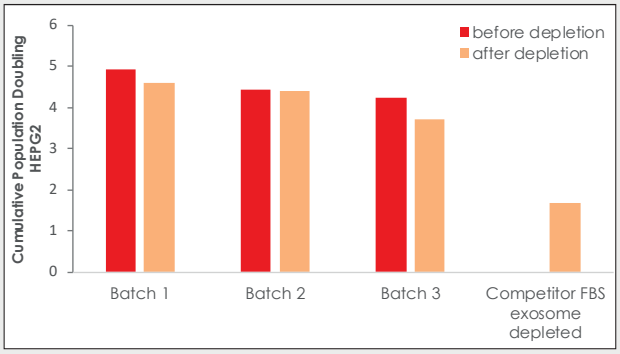

Figure 3 : Comparison of HEPG2 cell lines proliferation at day 7 (Passage 2) with 3 different batches before and after depletion and with one competitor FBS exosome depleted. The culture feature for HEPG2 (1000000 cells/cm²) are :
DMEM with 10% FBS at 5% CO_2 - 37°C - 6-wells plate.
Depletion treatment doesn't impact the cell growth.

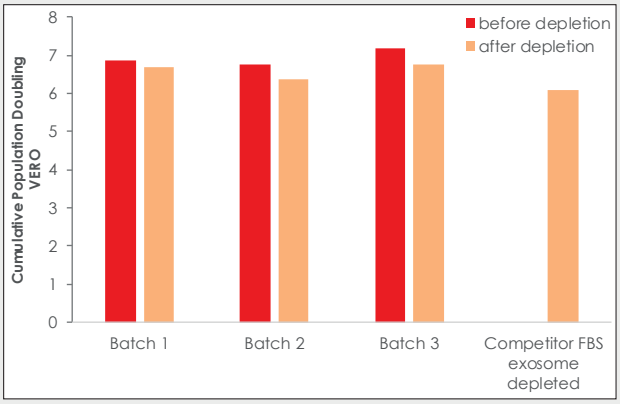

Figure 4 : Comparison of VERO cell lines proliferation at day 7 (Passage 2) with 3 different batches before and after depletion and with one competitor FBS exosome depleted. The culture feature for VERO (20000 cells/cm²) are : DMEM with 10% FBS at 5% CO_2 - 37°C - 6-wells plate.
Depletion treatment doesn't impact the cell growth.

Ordering Information

Cat N°	Product Name
S181M-100	FBS South America, exosome depleted, 100mL
S181M-500	FBS South America, exosome depleted, 500mL

Please visit ***www.biowest.net*** for more information

www.biowest.net
2, rue du Vieux Bourg, 49340 NUAILLÉ
Tel.: (+33) 241 464 242
Email: biowest@biowest.net