Fetal Bovine Serum
Extracellular Vesicles Depleted

BOVINE | SOUTH AMERICA

Leave nothing to chance:

Biowest can offer you the best alternative to reduce time, effort and variability in your experiments with Biowest Fetal Bovine Serum, E.V. Depleted.

- ≥ 95 % depletion of exosome (guaranteed minimum)
- Original animal serum depletion system
- Cell growth promotion validated
- No significant variation in physico-chemical analyzes
- Ideal solution for exosome & cell communication research
- No need for long lasting ultra centrifugation protocols

General information:

E.V. Depleted serum is treated with our proprietary ultrafiltration method. This treatment depletes the microvesicles naturally present in the serum without adding any compound to the serum.
The depletion rate is measured by ELISA method.

Ordering information:

Cat n°	Product name
S181M	FBS (South America Origin), E.V. Depleted
S140M	FBS (EU Origin), E.V. Depleted

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

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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 extracellular vesicles. The exact biological functions of these microvesicles are 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.

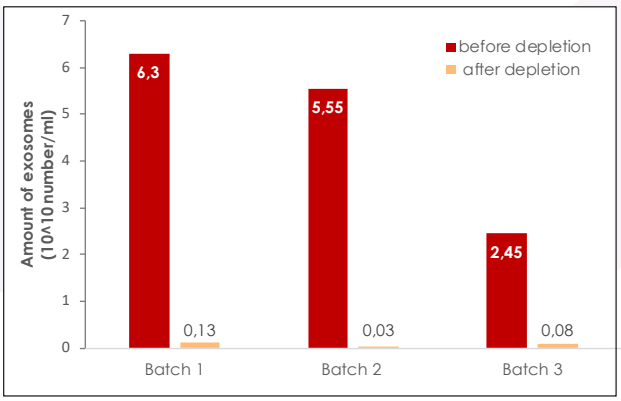

Figure 1 : Amount of Exosomes from different batches of FBS before and after depletion.
Efficiency of treatment on FBS is independant of the batches.

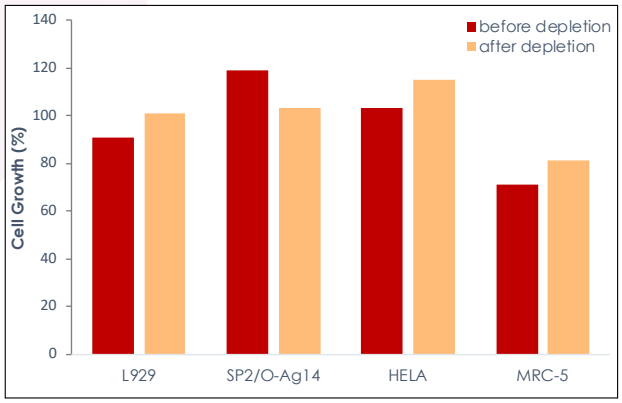

Figure 2 : Comparison of cell growth on different cell lines from one batch of FBS. The cell growth results were obtained by an internally validated method.
Depletion treatment doesn't impact the cell growth.

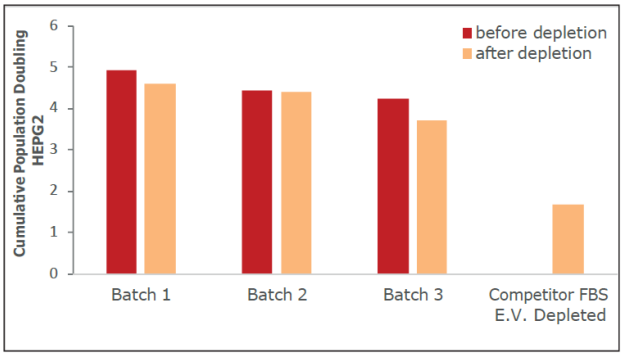

Figure 3 : Comparison of HEPG2 cell lines proliferation at day 7 (Passage 2) with 3 different batches before and after depletion and with one competitor FBS E.V. Depleted. The culture feature for HEPG2 (1000000 cells/cm²) are :
DMEM with 10% FBS at 5% CO_2 - 37°C - 6-wells plate.
Depletion treatment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

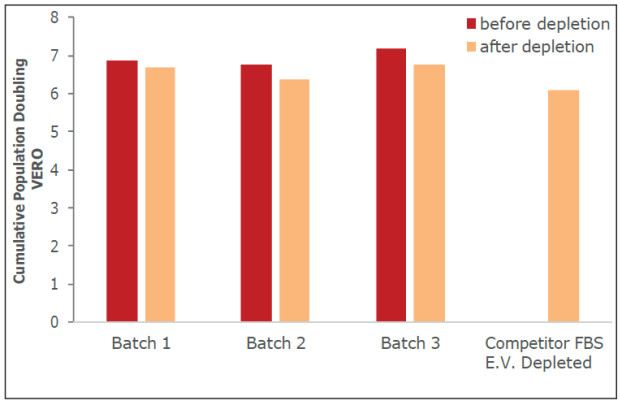

Figure 4 : Comparison of VERO cell lines proliferation at day 7 (Passage 2) with 3 different batches before and after depletion and with one competitor FBS E.V. Depleted. The culture feature for VERO (20000 cells/cm²) are : DMEM with 10% FBS at 5% CO_2 - 37°C - 6-wells plate.
Depletion treatment doesn't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

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S181M	FBS (South America Origin), E.V. Depleted
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