

# Fetalgro EX®

FBS replacement for a broad range of cell lines with no adaptation needed.



- Fetalgro EX is designed to meet or exceed the cell growth promotion characteristics of FBS in a wide range of cell lines. It can be applied directly to cells previously cultured with FBS without adaptation and can be used as an inexpensive FBS replacement in manufacturing, research, and development.
- RMBIO is committed to the development of high-performance FBS alternatives, reducing the burden of the increasing cost and varying supply of FBS.

- ✓ Fetalgro EX® matched or outperformed FBS' cell growth capabilities in 9 out of 11 cell lines when tested in-house, and showed only minor differences in 2 cell lines.
- ✓ Fetalgro EX® cultures resulted in 150% more growth than FBS cultures in the NIH-3T3 cell line.
- ✓ In-house studies saw 110-150% more cell growth with Fetalgro EX® than FBS in the MDCK, HEK293T, 3T3-L1, and SK-OV-3 cell lines.
- ✓ In-house studies showed 90-109% greater cell growth with Fetalgro EX® than with FBS in the CHO-K1, C2C12, Vero, HeLa, PC-3, and Huh7 cell lines.
- ✓ Can be used as an alternative in broad cell lines where FBS was previously used, without adaptation.
- ✓ Raw materials sourced from the USA.
- ✓ Manufactured at our state-of-the-art, GMP compliant facility.
- ✓ Strict endotoxin specification of < 10 EU/mL and hemoglobin specification of < 30 mg/dL.
- ✓ 9CFR tested for mycoplasma, sterility, and viral contamination.

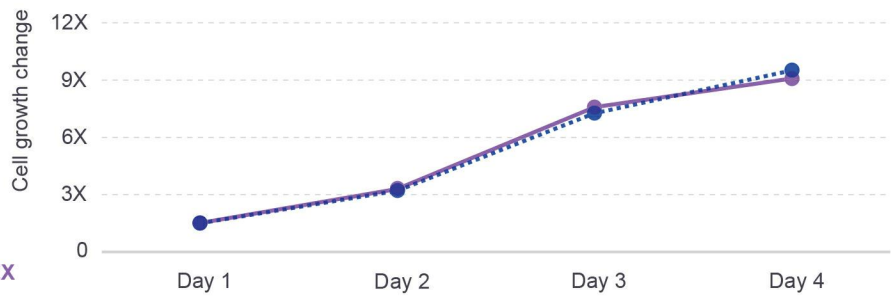


RMBIO earned the International Serum Industry Association (ISIA) Certificate of Traceability after a rigorous, independent third-party audit. The ISIA is the global leader for establishing, promoting and assuring compliance with uncompromising standards of excellence in the global animal serum and animal derived products supply industry. Certification demonstrates RMBIO's full compliance with ISIA traceability standards from abattoir to customer. RMBIO is honored to be a member of this prestigious association.

### Cell Growth Comparison of 10% Fetalgro EX® vs 10% FBS

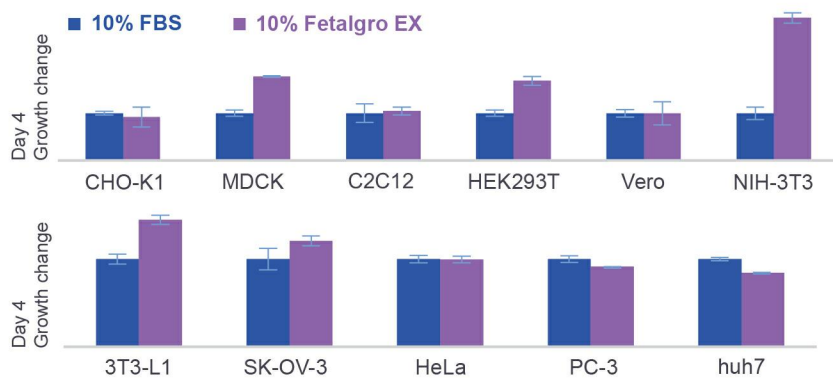
Results of a four day CHO-K1 cell growth test comparing 10% Fetalgro EX® culture to the control (10% fetal bovine serum culture (FBS)).

● 10% FBS    ● 10% Fetalgro EX



Results comparing cell growth rate of 10% Fetalgro EX® to 10% FBS in 11 common cell lines.

Cell line	Cell growth
CHO-K1	+
MDCK	++
C2C12	+
HEK293T	++
Vero	+
NIH-3T3	+++
3T3-L1	++
SK-OV-3	++
HeLa	+
PC-3	+
Huh7	+

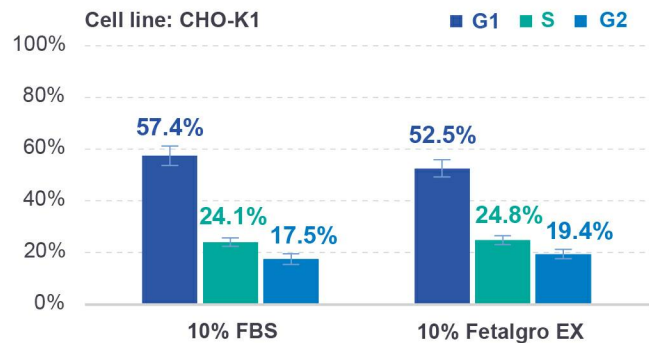


+ 90-109% cell growth compared to 10% FBS  
 ++ 110-150% cell growth compared to 10% FBS  
 +++ More than 150% cell growth compared to 10% FBS

### Cell Cycle Test

Cell cycle comparison of iron fortified bovine calf serum culture to control (10% FBS culture) using flow cytometry.

10% FBS	% AVG	% CV
G1 Phase	57.4%	3.7%
Synthesis	24.1%	1.6%
G2 Phase	17.5%	2.1%
10% Fetalgro EX®	% AVG	% CV
G1 Phase	52.5%	3.3%
Synthesis	24.8%	1.7%
G2 Phase	19.4%	1.8%



Performance comparison of FBS and Fetalgro EX® data provided by Welgene Inc. R&D, Oct. 2020.

**RMBIO Fetalgro EX® part numbers:**  
 FGX-BBT-5XM = 500ml, FGX-BBT-SMP = 50ml