

Why The Shift Towards FBS Replacements In Cell Culture Media?



Cost



Contamination Risks



Supply Chain Vulnerabilities



Lot to Lot Variability



Ethical Considerations



Regulatory Requirements

Cell Culture Market Trends

Increasing demand for cell culture in life sciences



Biopharmaceutical manufacturing
In vitro diagnostics
Regenerative medicine
Drug development
Immunotherapy



Fetalgro EX[®]

FBS Replacement for a Broad Range of Cell Lines

No Adaptation Needed



Cell Culture Tested



Sustainable



Consistent & Reliable



ISIA Certified

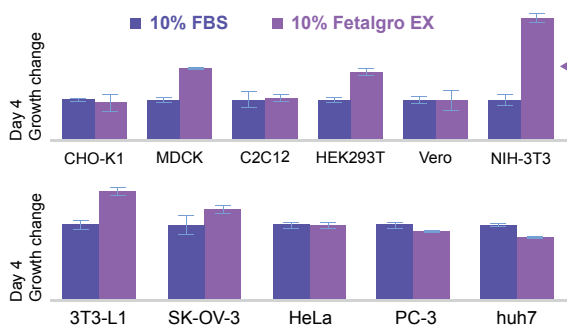
Fetalgro EX[®] Advantages

- Cost-effective & sustainable FBS alternative
- Generalist media additive with broad cell line compatibility
- 1:1 FBS replacement
- Use directly on FBS-cultured cells with no adaptation required
- Consistent and reliable cell culture performance
- Designed to meet or exceed the cell growth characteristics of FBS
- 9CFR tested for mycoplasma, sterility, viral contamination
- Endotoxin < 10 EU/mL & hemoglobin < 30 mg/dL

Cell Growth Rate Comparison

10% Fetalgro EX[®] vs. 10% FBS in 11 Commonly Used Cell Lines

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



150% more growth in NIH-3T3

Fetalgro EX[®] matched or outperformed FBS' growth in 9 out of 11 cell lines and showed only minor differences in 2 cell lines.

+ 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