

XF ViPro

Chemically defined serum free media.



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XF ViPro is a chemically defined, animal/human compound free product which has been successfully used with Vero cells and other cell lines are currently under investigation. It shows potential to be used with more cell lines, particularly in virus production applications. With XF ViPro, the reliance on animal-derived components is eliminated, enhancing batch-to-batch consistency, and reducing downstream processing time.

This supplement can be added at a 10% concentration to any basal medium preferred by researchers, offering flexibility and customization that ready-to-use media cannot match. By choosing XF ViPro, scientists gain the advantage of adapting their medium to the specific needs of their cell culture, ensuring optimal growth conditions and consistent results. XF ViPro presents the next step in current industrial standards, moving towards more ethical and sustainable biotechnological processes.



Optimized Cell Growth with XF ViPro Media

XF ViPro has been rigorously tested with Vero cells in RPMI 1640 medium, demonstrating its efficacy in a controlled environment. It has been compared to 'traditionally' using 5-10% FBS in culture media.

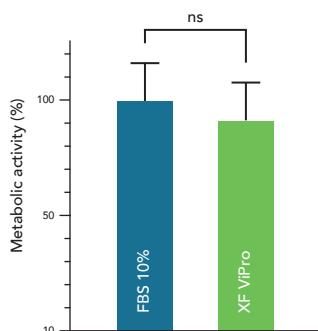


Figure 1: Cell viability was determined using the ROTITEST®Vital assay to measure metabolic activity. The assays were conducted in triplicate for each biological sample. The sample sizes are as follows: 10% FBS (n=27) and XF ViPro (n=45). The results for the XF ViPro medium were generated by three researchers to enhance reliability and replicability. The statistical analysis compares the 10% FBS control to the XF ViPro condition and is presented above the brackets, revealing no significant difference.

The bar graph illustrates the application of XF ViPro in Vero cells cultured with RPMI 1640, with its performance measured against the established standard of 10% FBS. No significant difference was observed supporting XF ViPro’s potential as a high-quality substitute for FBS in cell culture media.

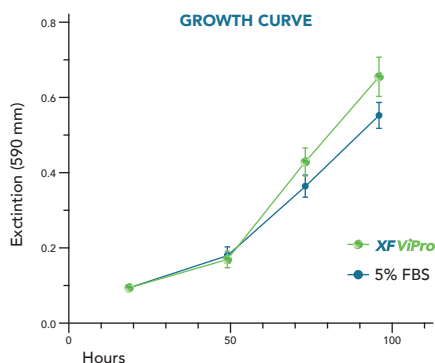


Figure 2: Growth curve comparison of cell cultures using 5% FBS versus XF ViPro media. Cell growth was quantified using crystal violet staining, which provides a colorimetric measure of cell density. The graph shows that cells grown in XF ViPro media (green line) and 5% FBS (blue line) follow similar growth patterns over time. Statistical analyses revealed a significant difference between the two conditions, meaning that XF ViPro medium is superior than the 5% FBS. Data points for 5% FBS are the mean of three biological replicates, and data points for XF ViPro are the mean of ten biological replicates.

The growth curve for Vero cells supplemented with XF ViPro shows that it sustains cell proliferation similarly when compared to a standard 5% FBS supplement. While both conditions demonstrate robust growth, statistical analysis reveals significant differences, highlighting XF ViPro’s potential as a superior alternative for cell culture and virus production.

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