



Human Serum Type AB

The Gold Standard for Human Cell Culture

While fetal bovine serum (FBS) remains a common supplement in cell culture, its xenogeneic origin can critically affect the molecular physiology of human cells, such as primary and immune cells.

Unlike FBS, Capricorn Scientific's Human Serum provides a human-specific environment that supports the physiological behavior of sensitive cell types, including lymphocytes, macrophages, and other immune-relevant human cells. Collected from screened AB male donors at FDA-licensed facilities, it ensures physiological relevance, consistency, and reliability in advanced research and diagnostic workflows.

KEY BENEFITS OF HUMAN SERUM TYPE AB



» Essential for Human Cell Function

Unlike xenogeneic supplements like FBS, human serum supports receptor–ligand interactions, signaling pathways, and metabolic conditions that are specific to human cells



» Minimized Immune Cross-Reactivity

AB donor serum lacks isoagglutinins (anti-A/anti-B antibodies), reducing the risk of activation or inhibition in immune cell cultures and functional assays



» Comprehensive Safety

Collected in FDA-licensed facilities, each lot is tested for sterility, mycoplasma, endotoxins, and a wide panel of viral markers including HIV, HBV, HCV, HTLV, WNV, Zika, and more



» Broad Application Spectrum

Ideal for immune cell cultivation, diagnostic workflows, and translational research. Compatible with a wide range of human *in vitro* applications

EXTENSIVELY TESTED. PROVEN IN HUMAN CELL CULTURE.

Capricorn Scientific's Human Serum Type AB undergoes rigorous in-house evaluation to ensure optimal support for human cell culture. In a comparative study, we analyzed the viability of iPSCs, mesenchymal stromal cells (MSCs), T-lymphocytes, and macrophages after three passages in media supplemented with either Human Serum or FBS.

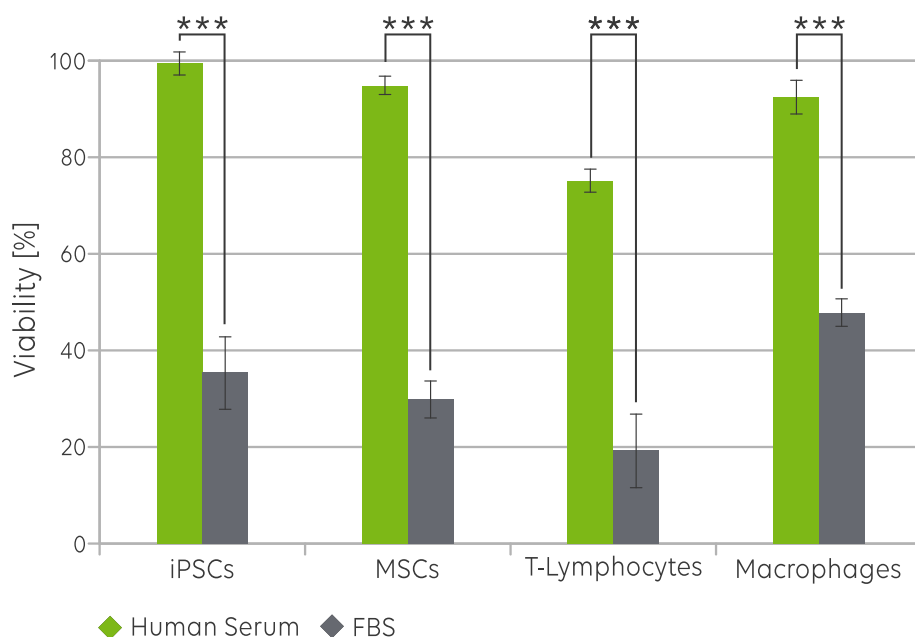


Fig. 1: Comparative performance of FBS and Human Serum Type AB across human cell types. After three consecutive passages, viability was assessed in human iPSCs, mesenchymal stromal cells (MSCs), T-lymphocytes, and macrophages (**p < 0.001). Error bars represent standard deviation (n = 4).

The results demonstrated consistently superior viability for all tested cell types when cultured with Human Serum. These findings underscore the physiological relevance and compatibility of Human Serum Type AB for demanding immune and stem cell applications.

ORDER INFORMATION

PRODUCT

Human Serum, Type AB, Male

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100 ml HUM-3B



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For further support, feel free to contact our experts at techservice@capricorn-scientific.com or phone (+49 6424 944 64 0).

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