

3D-Cell++500 3D Cell Expansion System*

Integrated Bioreactor/Incubator System
for large scale cell expansion



EFFICIENT

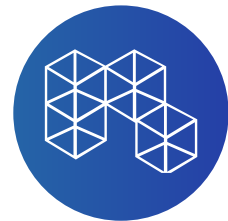
Our system is optimized for stem cell (adipose derived & bone-marrow) expansion. Reduced labor involved in cell expansion compared to traditional cell culture processes. This compact system makes it easy to expand cells up to 500 million in one production run while taking up very little lab space.



RESULTS

The closed system requires very little labor which drastically decreases chances of contamination. This allows for the reproducible results you are looking for.

Great potential for use in stem cell therapy & bio-banking. Also suitable for use in protein production for cosmetic industry.

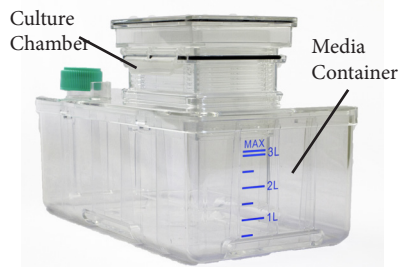


3D TECHNOLOGY

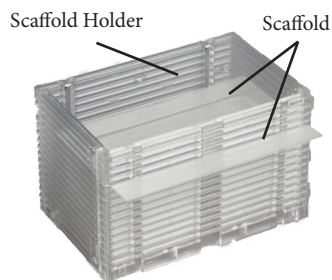
Cells are seeded and grown on 3D Biotek's polystyrene scaffolds.

By utilizing our 3D scaffolds, the system better mimics in vivo conditions, making research far more applicable in the clinical field. With our circulating media, the cells are able to grow viably & healthy and are easily detached from the scaffolds.

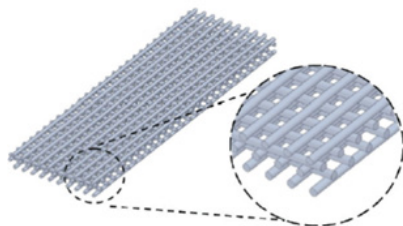
*US FDA Registered Medical Device



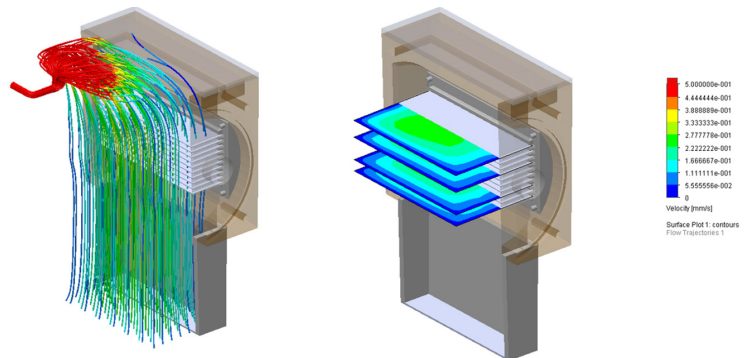
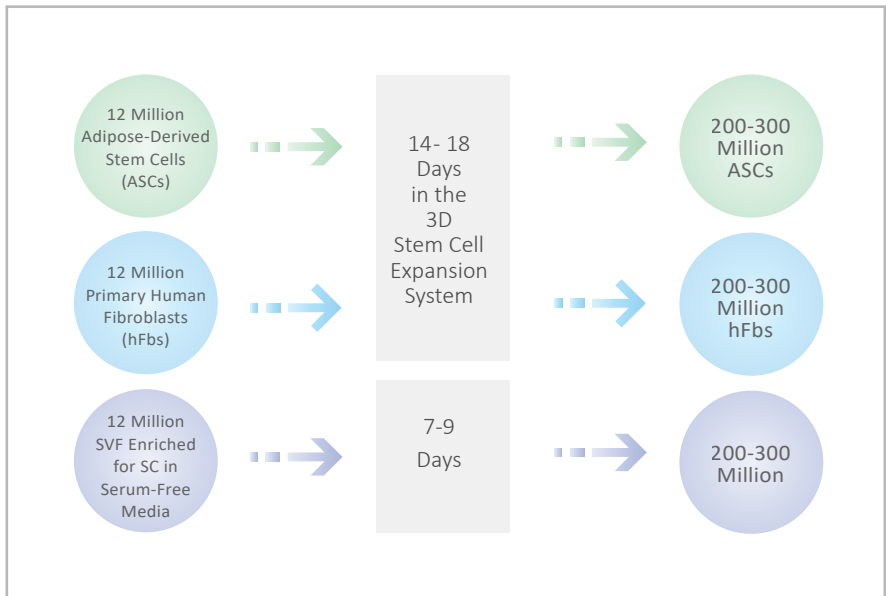
Culture Chamber & Media Container



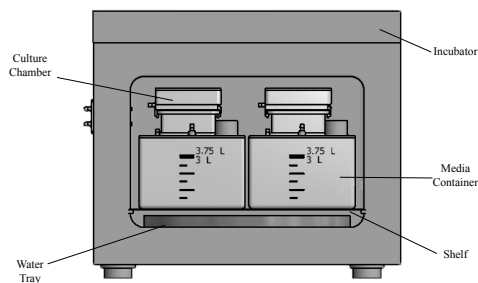
Scaffold Holder with scaffold
(Placed inside the culture chamber)



Polystyrene scaffold
(Inserted into slots of scaffold holder)



Computational Fluid Dynamic (CFD) analysis is used to optimize the medium flow over the scaffold. The velocity profile shows uniform flow across the scaffolds.



Each culture chamber is capable of expanding up to 250 million cells in about two weeks or less. The two culture chamber design allows expansion of up to 500 million per single production run.



+1 908 801 6138



sales@3DBiotech.com



3DBiotech.com

1031 US 206, Suite 202, Bridgewater, NJ 08807 U.S.A.