

Saint-Gobain life sciences introduce highly efficient cell culture bags for T Cell expansion

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Gaithersburg-based Saint-Gobain Life Sciences in the US is an industry leader in material science-based solutions for cell and gene therapy manufacturing. The company has launched a new cell culture bag designed specifically for T cell derived therapies.

T cell based therapies are revolutionizing the approach to treating cancer. Harnessing the patient's own immune system by isolating their T cells and engineering them to elicit an immune response is emerging as a preferred manufacturing practice. As the industry continues the advancement of these therapies, process efficiency becomes paramount to the success of delivering affordable therapies to patients.

Building upon the VueLife® family of fluorinated ethylene propylene (FEP) based cell culture bags, VueLife® “HP” (high permeability) incorporates an innovative, patented laminate film layer that allows increased CO₂ and O₂ exchange versus other monolayer bag designs, yet maintains the scalability and process flexibility offered by a closed bag system. The increased permeability associated with the “HP” laminate layer was specifically designed for culturing cells requiring higher rates of respiration, such as T cells.

“The development of this product was in direct response to the market need for a cost effective culture vessel that provides efficient cell expansion in a scalable, closed system,” said Benjamin Le Quere, General Manager for the Saint-Gobain Life Sciences Bioprocess Solutions business unit. “VueLife® “HP” is an exciting result of the marrying of our expertise in material science with our knowledge in cell culture.”

The entire family of VueLife® cell culture bags utilize a common FEP fluid-contact layer. FEP creates an ideal environment for cell growth due to its gas permeability and liquid impermeability, while being biologically and chemically inert.

Image Caption: VueLife® "HP" Series Bag cell culture testing in Saint-Gobain Life Sciences Laboratory.