

Efficient Production of Fully Glycosylated and Correctly Folded Recombinant Proteins

Harvest 2 - 6 milligrams per day or more of clean, concentrated, recombinant protein from perfused high density cell culture over long periods of operation



A FiberCell hollow fibre bioreactor maintains more cells in a smaller space than any other culture method and so can produce much greater amounts of recombinant proteins and antibodies with more convenience and lower cost.

- Gentle, constant, “in vivo like” conditions over long periods of production
- Typically 100X more concentrated
- Small harvest volumes—15ml / 60ml
- Cell passaging not required

What makes this culture system radically different?

A FiberCell cartridge is capillarized with hollow fibres to provide a huge area of porous semi-permeable surface for the dynamic perfusion of CHO, HEK293, BHK or other cell types by recirculating media. Efficient exchange of nutrients, gases and waste products with cells in the extra-capillary space enables long-term, high density *in vivo*-like conditions to ensure optimal productivity, folding and glycosylation.

Harvest clean, concentrated secreted products

Secreted proteins are retained without agitation or stress in the extra-capillary space and accumulate to high concentrations with minimal contamination from debris due to the exceptional vitality of the producer cells. Daily harvesting of clean, concentrated product can be performed over months if needed.

Serum-free operation

Cells lose their dependence on serum in the above mode of culture. This means that a very simple chemically-defined, surfactant-free media can be used. FiberCell has developed a low cost additive mix for basal media that replaces serum: [CDM-HD](#).



CONTACT KDBIO for more information: info@kdbio.com +33 3 88 26 12 86 www.kdbio.com

Discover more applications for the FiberCell hollow fibre bioreactor [here](#)