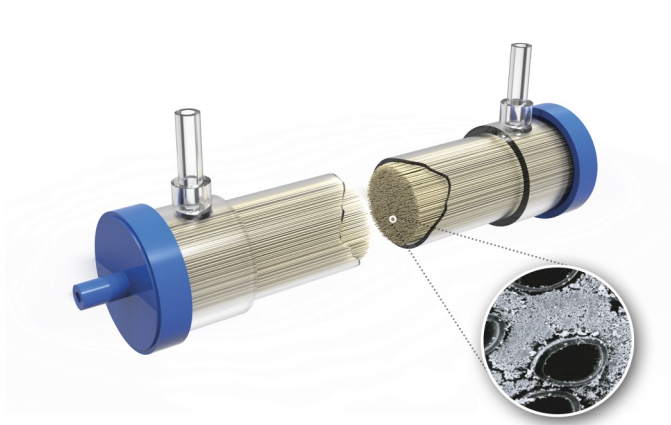


# Extracellular Vesicles / Exosomes

## High Efficiency Production System in Your Lab

### *EV-enriched supernatant*



**A FiberCell Systems hollow fibre bioreactor can continuously maintain more cells in a smaller volume than any other culture method** and so can produce very large amounts of extracellular vesicles with impressive efficiency and at lower overall cost.

- Large amount of EVs in small volumes
- Cell passaging is not required
- Avoids use of serum in cell compartment
- A more physiological 3D culture model

#### **Harvesting large amounts of concentrated secreted products**

EVs are retained in the extra-capillary space and accumulate to high concentrations with minimal debris thanks to the low stress culture environment. A single 20ml harvest can be equivalent to 1 or 2 litres of flask culture media and several harvests per week can be taken over many weeks of operation.

#### **What makes this culture system radically different?**

A FiberCell Systems cartridge is capillarised with hollow fibres providing around 3000 cm<sup>2</sup> of porous semi-permeable surface for cell attachment and perfusion by recirculated media. Dynamic exchange of nutrients, gases and waste products enables long-term, high density *in vivo*-like culture conditions for optimal productivity. Up to 10<sup>11</sup> cells can be maintained in continuous culture over long periods if needed.

#### **Serum-free operation**

Many, if not most, cell types lose their dependence on serum in this mode of culture. Serum can often be replaced with FiberCell's proprietary chemically defined formulation, CDM-HD. Note: serum can be used in the recirculating media since bovine exosomes do not cross the 20 Kd cut-off fibre walls.



CONTACT KDBIO for more information: [info@kdbio.com](mailto:info@kdbio.com) +33 3 88 26 12 86 [www.kdbio.com](http://www.kdbio.com)