

Product pre-launch

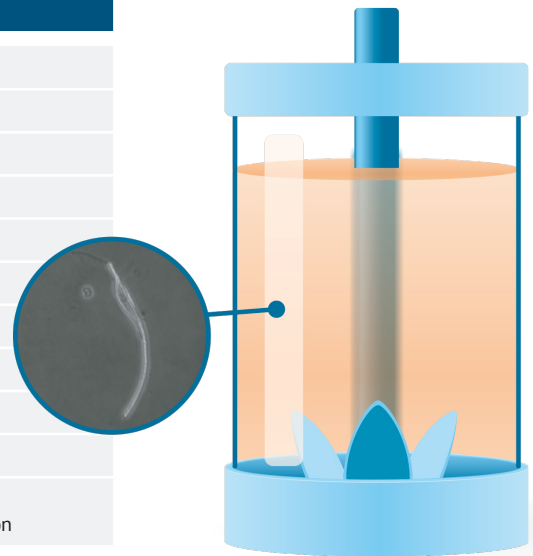
Introducing 1st nanofiber microcarriers for gene therapy



Cellevat3d[®] nanofiber microcarriers starter pack

Product specification overview

Cellevat3d [®] nanofiber microcarriers starter pack	
Surface Area	53 000 cm ² /g
Material	Nanofiber-based cellulose
Format	Monofibers
Bioreactor	Stirred tank bioreactors
Diameter nm	500 nm
Animal free available	Yes
Typical cell density (HEK/AAV)	2–3x10 ⁶ cells/ml
Sterile procedure	Autoclavation
Scalability	From lab- to large-scale production
Charge	Positively charged
Applications	Gene therapy, PSCs, HEK based recombinant proteins, HEK based vaccines, organoid formation



Benefits

1. Enhanced product titers in upstream bioprocessing

Nanofiber microcarriers provide up to 60x larger surface area-to-volume ratio than current microcarriers, supporting higher cell densities and enhancing viral vector production titers.

2. Optimal conditions for cell growth

Nanofiber microcarriers support the formation of spheroids, providing a true 3D (three-dimensional) cell culture environment, generating high viable cell densities (VCD) in stirred tank bioreactors.

3. Scalable from lab- to large-scale

Nanofiber cell culture systems are easily scaled-up from cell culture flasks to large stirred tank bioreactors.

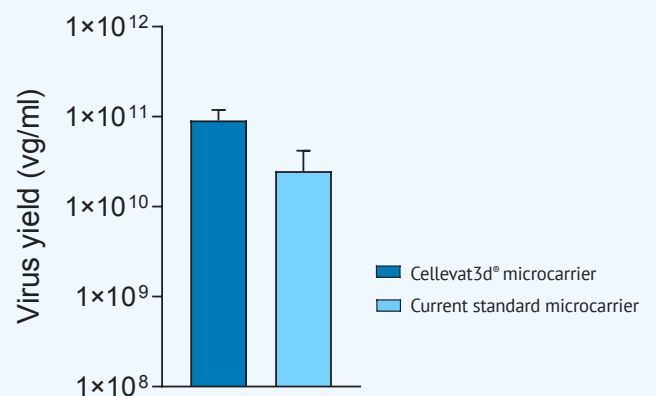
4. Exceptional flexibility

Nanofiber material can be functionalized and easily molded into any shape or form, allowing for integration in various production platforms for gene therapy, cell therapy and novel vaccines.

5. Increased productivity and improved process economy

Improved cell culture product yield, faster processes, and scale-up result in an enhanced process economy

Cellevat3d[®] nanofiber microcarriers provide 2.7 times higher yield (AAV9) compared to current standard microcarriers



Reference: Data generated by UCL, London UK, Aug 2024

To pre-order Cellevat3d[®] nanofiber microcarriers starter pack, please contact Cellevate's sales team at sales@cellevate.com