



Micronesia cellcube corning

What is the Corning cellcube cell culture system?

The Corning CellCube cell culture system provides a compact, perfusion-based method for the mass culture of attachment-dependent cells.

How does the Corning cellcube system work?

The culture medium is perfused through the Corning CellCube system by a peristaltic pump. This allows media to flow in from the controlled single use bioreactor (SUB) into the CellCube module and back to the SUB for conditioning.

Does Corning offer closed system cellcube modules?

Corning offers closed system CellCube modules available preassembled with AsepticQuik™ connectors, as well as a selection of circulation loops that facilitate adherent cell culture scale-up and integrate seamlessly with AsepticQuik and MPC connectors. *Peristaltic pump, controller, and SUB sold separately.

What surface treatments are available for cellcube modules?

CellCube modules are available with either a Tissue Culture (TC)-treated growth surface or Corning CellBIND™ surface for cell attachment. The surface treatment is applied to both sides of each layer to achieve available surface area ranging from 8,500 cm² to 85,000 cm² in a compact footprint.

What is a cellcube module?

CellCube modules are made of polystyrene plates joined together to create thin, sealed laminar flow spaces between adjacent plates and are coated with either a Tissue Culture-treated growth surface or Corning CellBIND™ surface to enhance attachment.

How does the cellcube system work?

Utilizing a perfusion-based design, the CellCube system is able to mimic the constant fluid flow of in vivo conditions and reliably distribute nutrients and oxygen with low differential gradients across all attached cells throughout the modules.

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perfuses the cells with fresh medium for increased cell productivity.

The CellCube Module is an integral, encapsulated, sterile, single-use device that is 100% pressure-hold tested before shipment. It is comprised of a series of parallel, styrene plates ...

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The Corning CellCube system consists of a Corning CellCube module, a bioreactor and bioreactor controller, peristaltic pump, and circulation tubing loops. The CellCube module connects to the ...

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This study describes a "plug-and-play" setup for cell expansion in Corning CellCube 25-layer modules in the absence of a bioreactor controller.

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