

## CBMC-MCdex1 Gamma microcarriers

### Product Information

<b>Cat#No#</b>	MCdex-01G
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### Product Overview

Gamma-sterilized and ready to use for quick culture start-up. Delivered in a convenient, single-use container system for easy transfer to various cell culture vessels. Supplied dry to save storage space and facilitate transportation. Enable culturing of anchorage-dependent cells in single-use bioreactor to eliminate the need for cleaning and cleaning validation. Supported by extensive product documentation to facilitate regulatory filing. Serum-free function testing to ensure performance.

<b>Form</b>	sterilized, dry power
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### Characteristic

CBMC-MCdex1 Gamma is based on a cross-linked dextran matrix which is substituted with positively charged N, N-diethylaminoethyl groups. The charged groups are distributed throughout the microcarrier matrix and the resin has an ionic capacity of 1.4 to 1.6 mmol Cl<sup>-</sup> /g of resin.

### Applications

Microcarrier-based culturing can be performed in simple shaker flasks or roller bottles as well as in more advanced traditional or single-use bioreactor systems, from milliliter to thousands-of-liter scales. Compared with cultivation in several shake flasks or roller bottles, one single bioreactor culture allows: Automatic control of pH and dissolved oxygen (DO), in-line cell counting, and logging of cell culture data for product documentation. Perfusion culturing to high cells densities, minimizing the need for several intermediate seed train bioreactors during scale-up. Scaling to be performed in one bioreactor system. Inactivation of harmful organisms in the entire culture batch to be performed in just one step.

### Quality control analysis

Performance of CBMC-MCdex1 Gamma is validated with serum free medium. Every batch conforms to stringent specifications. Quality control tests are performed to satisfy both physiochemical and functional (i.e., cell growth) properties.

### Swelling

20 ml/g

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### Shelf life

The shelf life of CBMC-MCdex1 Gamma is two years.

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### Sterilization

Gamma irradiated CBMC-MCdex1 Gamma products are validated sterile at a SAL of 10<sup>-6</sup> according to ISO/AAMI/ASTM 11137.

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<b>Size</b>	30g; 100g; 500g; 1kg; 2.5kg; 5kg
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### Approximate Surface Area Dry Weight

0.44 m<sup>2</sup>/g

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### Approximate Number of Micro-Carriers Dry Weight

4.3 × 10<sup>6</sup>

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