

CBMC-MCdex3 Gamma microcarriers

Product Information

Cat#No# MCdex-03G

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.

Form sterilized, dry powder

Characteristic

CBMC-MCdex3 Gamma, formed by chemically coupling a thin layer of denatured collagen to the cross-linked dextran matrix, is the microcarrier of choice for cells that may be difficult to culture in vitro, and particularly for cells with an epithelial-like morphology. Because the collagen surface layer can be digested by a variety of proteolytic enzymes, it provides novel opportunities for harvesting cells from the microcarriers while maintaining maximum cell viability and membrane integrity. These issues may be critical in developing successful serial subcultivation protocols required for scaling-up culture volumes.

Applications

Applications include the production of large quantities of cells, viruses and recombinant cell products (e.g. interferon, enzymes, nucleic acids, hormones), studies on cell adhesion, differentiation and cell function, perfusion column culture systems, microscopy studies, harvesting mitotic cells, isolation of cells, membrane studies, storage and transport of cells, assays involving cell transfer and studies on uptake of labelled compounds.

Matrix

Cross-linked dextran

Swelling

15 ml/g

CBMC-MCdex3 Gamma microcarriers

Average particle size

175 µm Spherical

Shelf life

The shelf life of CBMC-MCdex3 Gamma is two years.

Warning

Warning indicates a hazardous situation which, if not avoided, could result in death or serious injury. It is important not to proceed until all stated conditions are met and clearly understood.

Sterilization

Gamma irradiated CBMC-MCdex1 Gamma and CBMC-MCdex3 Gamma products are validated sterile at a SAL of 10⁻⁶ according to ISO/AAMI/ASTM 11137.

Size 30g; 100g; 500g; 1kg; 2.5kg; 5kg

Surface

Pig skin gelatine coated

Charge Density

Not relevant. Gelatine coated

Approximate Surface Area Dry Weight

0.27 m²/g

Approximate Number of Micro-Carriers Dry Weight

3 × 10⁶
