

Product Information

Cellvento™ Feed-220

Chemically defined cell culture feed

Product description

Cellvento™ Feed-220 is a chemically defined feed formulation containing only components of non-animal origin. The product is intended for use in the development and manufacturing of biotherapeutics in Chinese Hamster Ovary (CHO) cell-based expression systems.

Cellvento™ Feed-220 contains concentrated amino acids, vitamins, salts, and trace elements and is supplied in dry powder format.

Application

Cellvento™ Feed-220 has been designed to support optimal cell growth and performance of CHO-K1 derived suspension cell types, but may be suitable for use with other CHO cell lines. It has been developed to be used as a companion feed supplement with the production medium Cellvento™ CHO-220 in fed-batch manufacturing processes.

This product is intended for research or further manufacturing but not for human or therapeutic use.

Reconstitution method to generate 3 L Cellvento™ Feed-220

1. Slowly add 338.8 grams of powder to 2.5 L of Milli-Q® or similar cell culture grade water at room temperature in an appropriately sized container. Rinse feed container as necessary to remove remaining powder.
2. Vigorously mix for 45–60 minutes until fully dissolved.
3. Add cell culture grade water to reach a final volume of 3 L. Confirm final pH of 5.6 +/- 0.3.
4. Measure the osmolality of the solution. Final osmolality should be 1,100 +/- 50 mOsmol/kg. Sterilize by membrane filtration using a 0.22 µm Millipore Express® PLUS or Durapore® membrane filter (bottle cap or capsule filter).
5. Store at 2–8 °C protected from light. Reconstituted liquid Cellvento™ Feed-220 is stable for 30 days. When a bottle is opened, liquid feed is stable for max. 3 weeks.

Note: For use in feed evaluation, the culture must be additionally supplemented with a cysteine/tyrosine stock solution with concentrations of 150 mM L-cysteine and 288.5 mM L-tyrosine. Recommended ranges for evaluation are described in the Process Guidance for Cellvento™ CHO-220 medium.

Storage

Dry powder should be stored at 2–8 °C protected from light. Do not use after expiration date.

Shelf life

12 months

Ordering information for Cellvento™ Feed-220

Catalog number	Product name	Pkg. size	Equivalent
1.02578.0003	Cellvento™ Feed-220 Chemically defined cell culture feed	0.339 kg	3 liters
1.02578.0010	Cellvento™ Feed-220 Chemically defined cell culture feed	1.129 kg	10 liters
1.02578.0050	Cellvento™ Feed-220 Chemically defined cell culture feed	5.647 kg	50 liters

Ordering information for Cellvento™ CHO-220 medium

Catalog number	Product name	Pkg. size	Equivalent
1.02577.0010	Cellvento™ CHO-220 Chemically defined cell culture medium	0.203 kg	10 liters
1.02577.0100	Cellvento™ CHO-220 Chemically defined cell culture medium	2.032 kg	100 liters

Ordering information for cell culture additives

Catalog number	Product name	Pkg. size
1.00286.1000	L-Glutamine suitable for use as excipient EMPROVE® exp DAB, USP	1 kg
1.37013.2500	Sodium hydrogen carbonate suitable for biopharmaceutical production EMPROVE® bio Ph Eur, BP, USP, JP	2.5 kg
1.02452.0025	L-Cysteine for cell culture media	25 g
1.02413.0100	L-Tyrosine disodium salt dihydrate for cell culture media	0.1 kg
1.02415.0400	D(+) Glucose anhydrous for cell culture media	0.4 kg

Ordering information for aseptic filters

Catalog number	Product name	Pkg. size
GPWP02500	Millipore Express® PLUS Membrane, 0.22 µm, 25 mm	100
GVWP02500	Durapore® Membrane, 0.22 µm, 25 mm	100

To find out more about Cellvento™ CHO media platform products, visit www.merckmillipore.com/cellvento

For more information and documentation please contact:

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The typical technical data above serve to generally characterize the cell culture media in industry-relevant expression systems. The product information is available separately from the website www.merckmillipore.com

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