



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.

Storage

Dry powder should be stored at 2–8 °C protected from light.

Do not use after expiration date.

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 $1,100 \pm 50$ 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: When using this feed, 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-200 Medium.

Ordering Information

Cat. No.	Product Name	Pkg. size
Companion Cellvento® Feed-220		
1.02578.0003	Cellvento® Feed-220 Chemically defined cell culture feed	0.339 kg (3 L)
1.02578.0010	Cellvento® Feed-220 Chemically defined cell culture feed	1.129 kg (10 L)
1.02578.0050	Cellvento® Feed-220 Chemically defined cell culture feed	5.647 kg (50 L)
Cellvento® CHO-220 medium – Dry powder		
1.02577.0010	Cellvento® CHO-220 Chemically defined cell culture medium	0.203 kg (10 L)
1.02577.0100	Cellvento® CHO-220 Chemically defined cell culture medium	2.032 kg (100 L)
Cell culture additives		
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

Ordering Information for sterilizing-grade filters

	Bacteria Removal	Mycoplasma & Bacteria Removal
Volume	Millipore Express® SHC	Millipore Express® SHR with Prefilter
10 L	KHGES015FF3	KHVES015FF3
100 L	KHGES03TT3	KHVES03TT3

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Merck KGaA
Frankfurter Strasse 250
64293 Darmstadt, Germany

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