



Cellvento® 4Feed

Chemically defined cell culture feed

Product description

Cellvento® 4Feed 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® 4Feed is a highly concentrated, neutral pH feed to be added to replenish depleted nutrients required for cellular function and to maintain and extend the production phase in fed-batch mode. This single feed is concentrated to more than 130 g/L allowing a reduction of the volume of feed added to the medium thereby increasing the volumetric productivity. It also contains cysteine and tyrosine derivatives which have been shown to release free cysteine and free tyrosine slowly throughout the culture. This time dependent release avoids tyrosine depletion which can lead to sequence variants. This process also results in free cysteine release, while maintaining a reduced redox environment. This is often related to higher cell growth and productivity. The feed format is compacted dry powder — Cellvento® 4Feed COMP.

Application

Cellvento® 4Feed has been designed to support optimal cell growth and performance of CHO 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® 4CHO 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 5 L Cellvento® 4Feed

Slowly add 651.75 grams of powder to 4.5 L of Milli-Q® or similar cell culture grade room temperature water in an appropriately sized container.

- Rinse feed container as necessary to remove remaining powder.
- Vigorously mix for 45 min until fully dissolved.
- Slowly add NaOH to adjust pH to 7.0 +/- 0.3.
- Add cell culture grade water to reach a final volume of 5 L.
 - Confirm final pH of 7.0 ± 0.3 .
- Measure the osmolality of the solution. Final osmolality should be 1220 ± 50 mOsmol/kg. Immediately filter using a sterilizing-grade filter ($\leq 0.22 \mu\text{m}$). For filter recommendations, see Page 2.
- Store at 2–8 °C protected from light.
 - Reconstituted Cellvento® 4Feed liquid media is stable for 60 days.
 - When a bottle is opened, liquid media is stable for max 3 weeks.

Note: Recommended ranges for evaluation are described in the Process Guidance for Cellvento® 4CHO Fed-batch Medium.

Storage

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

Do not use after expiration date.

Shelf life

12 months

Ordering information for Cellvento® 4Feed

Cat. No.	Product Name	Pkg. Size	Equivalent
1.03796.0005	Cellvento® 4Feed COMP	0.651 kg	5 liters
1.03796.0010	Cellvento® 4Feed COMP	1.304 kg	10 liters
1.03796.0050	Cellvento® 4Feed COMP	6.518 kg	50 liters

Ordering information for Cellvento® 4CHO

Cat. No.	Product Name	Pkg. Size	Equivalent
1.03795.0010	Cellvento® 4CHO COMP	0.237 kg	10 liters
1.03795.0100	Cellvento® 4CHO COMP	2.370 kg	100 liters

Ordering information for cell culture additives

Cat. No.	Product Name	Pkg. Size
1.37020.5000	Sodium hydroxid pellets suitable for the biopharmaceutical production EMPROVE® bio	5 kg
1.37013.2500	Sodium hydrogen carbonate suitable for biopharmaceutical production EMPROVE® bio Ph Eur, BP, USP, JP	2.5 kg
1.00286.1000	L-Glutamine suitable for use as excipient EMPROVE® exp DAB, USP	1 kg

Ordering information for sterilizing-grade filters

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

To place an order or receive technical assistance

In Europe, please call Customer Service:

France: 0825 045 645 Spain: 901 516 645 Option 1
Germany: 069 86798021 Switzerland: 0848 645 645
Italy: 848 845 645 United Kingdom: 0870 900 4645

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