

EX-CELL® CD Insect Cell Medium

Specially formulated to get the best performances for insect cell lines

Product Description

The EX-CELL® CD Insect Cell Medium is a specialized medium with a defined chemical composition, engineered to maximize the performance of insect cells. The formulation is animal-component free and has been formulated with L-Glutamine.

Application

EX-CELL® CD Insect Cell Medium can be used as amplification medium and production medium for *Spodoptera frugiperda* (Sf) cells such as Sf21 and Sf9 cells and is compatible with Tni, C636 and S2 cells. The media has been optimized to get excellent growth and productivity for the rhabdovirus-free Sf-RVN® Insect Cell Line (Sf9). Together those products form the Sf-RVN® Platform.

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

Media preparation:

Liquid medium must be supplemented with 3 mL/L of SyntheChol®.

Dry powder medium must be supplemented with 0.760 g/L Sodium Bicarbonate. No SyntheChol® supplementation is required.

Storage

Liquid and dry powdered media should be stored at 2-8 °C and protected from light.

Shelf life

12 month for liquid medium and 24 months for dry powdered medium. Do not use after expiration date. After hydration, dry powder medium should be used within one month. Please note that particulates may occur after 10 days of storage. Do not refilter as this may affect performance.

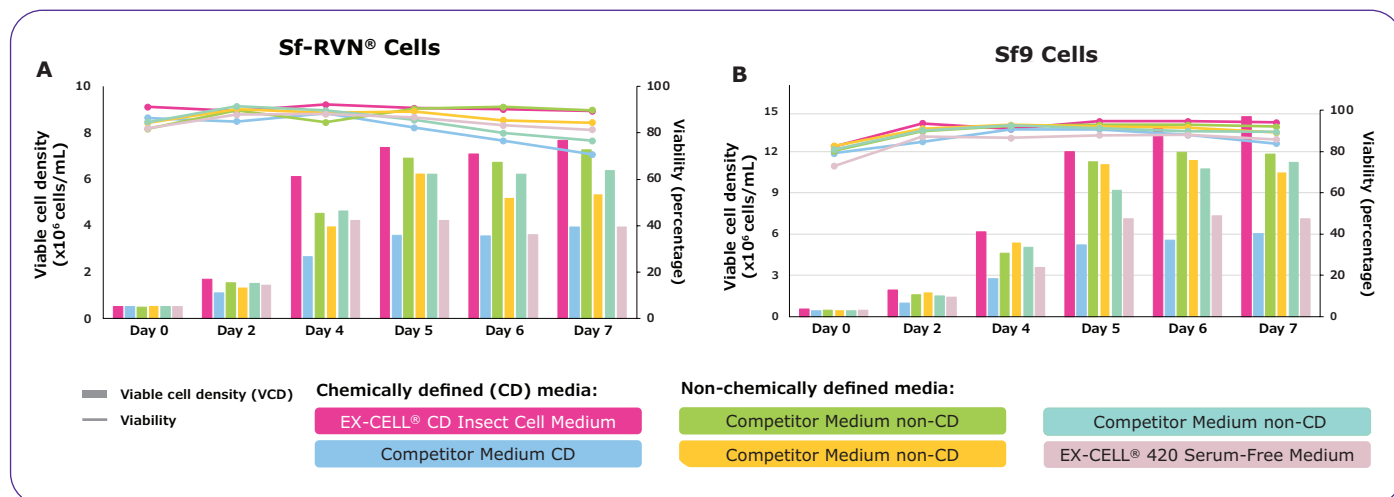


Figure 1: EX-CELL® CD Insect Cell Medium is the best medium tested to support Sf-RVN® (A) and Sf9 (B) cells growth. Cells were adapted for at least five passages in six different cell culture media. Two of them are chemically defined (including the EX-CELL® CD Insect Cell Medium) and the four others are not chemically defined and contain hydrolysates. After adaptation, cells were seeded 0.5x10⁶ cells/mL on day zero. Viable cell density (VCD) and viability were followed for 7 days.

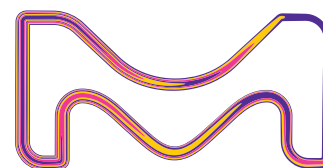
Reconstitution method to prepare 1 L EX-CELL® CD Insect Cell Medium

- Add 800 mL of Milli-Q® or similar cell culture grade water (at 25-30 °C) in an appropriately sized container.
- Add 2 mL of 5N NaOH and stir for 5 minutes.
- Add 31.7 g of EX-CELL® CD Insect Cell Medium (dry powdered) and stir for 5 minutes.
- Add 0.760 g of sodium bicarbonate.
- Add cell culture grade water to reach out 950 mL and stir for 30 minutes.
- Adjust pH to 6.1 ± 0.1 with 5N HCl.
- Measure the osmolality of the solution. Final osmolality should be at 380 ± 10 mOsmol/kg. Adjust with NaCl if necessary.
- Add cell culture grade water to reach a final volume of 1,000 mL.
- Sterile filter using a sterilizing-grade filter (≤ 0.22 µm).

Ordering Information

Products	Cat. No.
EX-CELL® CD Insect Cell Medium – Liquid	
EX-CELL® CD Insect Cell Medium 1,000 mL bottle	14380C-1000ML
EX-CELL® CD Insect Cell Medium – Dry powder	
EX-CELL® CD Insect Cell Medium for 5 L	24381C-5L
EX-CELL® CD Insect Cell Medium for 10 L	24381C-10L
EX-CELL® CD Insect Cell Medium for 50 L	24381C-50L
EX-CELL® CD Insect Cell Medium for 100 L	24381C-100L
EX-CELL® CD Insect Cell Medium for 500 L	24381C-500L
Related Products	
Sodium Bicarbonate	S5761
SyntheChol®	S5442
Sf-RVN® Insect Cell Line	SFRVN-1VL

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