

Hamster Cell Culture Media

PromoCell

Instruction Manual

Product	Size	Catalog Number
SFC-30 CHO Express, serum-free	500 ml	C-78530
SFC-50 CHO Express, serum-free	500 ml	C-78550
SFC-60 CHO Express, protein-free, animal component-free	500 ml	C-78560
SFC-70 CHO Express, protein-free	500 ml	C-78570
SFC-10 BHK Express, serum-free	500 ml	C-78710
SFC-20 BHK Express, protein-free	500 ml	C-78720

Description

PromoCell provides media optimized for the highly efficient expression of recombinant proteins in hamster cells, namely Chinese Hamster Ovary (CHO) and Baby Hamster Kidney (BHK) cells.

Defined serum-free as well as protein-free formulations are available matching the needs of anchorage dependent or suspension cell lines. The optimal culture conditions result in high cell densities and maximum protein yields.

Detailed Information

Serum free formulations

- for anchorage-dependent cells:
SFC-30 CHO Express
- for suspension cells:
SFC-50 CHO Express

Protein-free formulations

- SFC-60 and SFC-70 CHO Express

SFC-30 CHO Express and SFC-50 CHO Express are based on either RPMI Medium or DMEM/F12 Medium and additionally contain defined quantities of selected amino acids, carrier proteins, inorganic salts, polyamines, hormones and growth factors. SFC-60 CHO Express and SFC-70 CHO Express are protein free formulations consisting of a balanced mixture of nutrients especially adapted to the needs of CHO cells. SFC-60 is animal component-free (ACF).

SFC-10 BHK Express and SFC-20 BHK Express are fully defined media that can be used for the cultivation of BHK cells. They are especially suited to cultivate cells producing recombinant proteins. SFC-10 is a serum free formulation con-

taining 30 mg/l protein, whereas SFC-20 is completely protein free.

All SFC-Media need to be supplemented with 1000 mg/l L-Glutamine prior to use.

Storage and Stability

Store SFC-30 CHO Express, SFC-50 CHO Express, and SFC-10 BHK Express at -20°C, the other SFC Media at 4 to 8°C in the dark, immediately after arrival. If stored properly, the product is stable until the expiry date stated on the label.

Adaptation Protocol

Sequential adaptation of CHO cells from serum-supplemented or serum-free medium may be required. It is critical that cell viability is at least 90% and cells are in the mid-logarithmic phase of growth prior to adaptation. A recommended sequential adaptation procedure may be as follows:

First adapt cells to grow under serum free conditions. Reduce the content of serum gradually by approximately 30 to 50% in each step; only reduce the amount of serum if cells grow and look viable under

the microscope.

It is advantageous to use a mixture of the commonly used serum containing medium and the serum free medium; thereby the cells can adapt to the new growth environment.

Then adapt to protein free conditions by reducing the content of serum free medium gradually by approximately 30 to 50% in each step; use the protein free medium to dilute; only reduce the amount of serum-free medium if cells look viable under the microscope.

Quality Control

All lots of PromoCell speciality media

are subjected to comprehensive quality control tests. Each lot is routinely tested for growth promotion, absence of cytotoxicity, and physical parameters such as osmolality and pH level. Approved in-house lots of media are used as a reference.

In addition, all lots of media have been tested for the absence of microbial contaminants (fungi, bacteria).

Intended Use

The products are for *in vitro* research use only and not for diagnostic or therapeutic procedures. For safety precautions

If you require special media modifications, we offer a Custom Media Service starting at 10 bottles per order. Please ask for details.