Datasheet

Spodopan

Protein-free Complete Medium for an Optimized Growth of Insect Cells

Product	Description	Catalogue-No.	Size
Spodopan	**Protein-free complete medium for an optimized growth of insect cells**	**P04-850100** **P04-850500** **P04-851000**	**100 ml** **500 ml** **1000 ml**

Product description

Spodopan is a serum-free and protein-free medium for optimized growth of insect cells such as Sf9 and Sf21 (*Spodoptera frugiperda*) in suspension culture.

Storage conditions

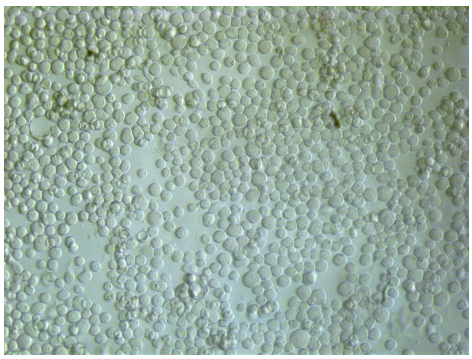
Storage: 2-8°C (in the dark)
Stability: 1 year from date of production
Size: 100 ml, 500 ml, 1000 ml, other sizes on request

Composition

Spodopan contains amino acids, vitamins, salts, trace elements, lipids and growth promoting factors in a formulation optimized for insect cells. It contains no protein or any other components of human or animal origin, only traces of animal-derived components (< 0.2 % w/v) and hydrolysates (< 0.7 % w/v).

Suitability

Spodopan is suitable for the cultivation of insect cells and the production of recombinant proteins and virus (Baculovirus expression vector system, BEVS).



Sf9 Cells in Spodopan

PAN Biotech GmbH – Am Gewerbepark 6+13 – 94501 Aidenbach – GERMANY
www.pan-biotech.com – phone +49-8543-601630 – fax +49-8543-601649

Instructions for use
Adaption to a protein-free culture

The optimal temperature range for most insect cells is 25°C to 30°C (27°C incubation ± 0.5°C).
The pH for cell culture with Lepidoptera cells should be between pH 6.0 and pH 6.4.
The osmolality for insect cell media should be 345 – 380 mOsm/kg.
For optimized oxygen supply, slightly unscrew the caps of the culture vessels or use filter screw caps.

Insect cells from a serum-containing culture should be adapted to the protein-free culture. This could be done either by direct or sequential adaptation.

Suspension cells should be taken from the middle exponential growth phase with a viability of over 90% (Trypan blue exclusion staining).

Direct adaptation to Spodopan

- Transfer the cells from the serum-containing culture (e.g. TNM-FH, FBS 5-10%) directly into pre-warmed (27°C) protein-free Spodopan with a cell density of $5x10^5$ cells/ml.
- When the culture reaches a cell density of >$2x10^6$ cells/ml (after 4-7 days) subculture cells in new protein-free medium with a cell density of $5x10^5$ cells/ml.
- Repeat subculture until a viability of at least 80% is obtained.

Indirect adaptation to Spodopan

- Subcultivate cells from the serum-containing culture in a 1:1 ratio with the original culture medium and Spodopan. Seeding density $5x10^5$ cells/ml
- When the culture reaches a cell number of >$1x10^6$ cells/ml subculture the cells with fresh protein-free medium in a 1:1 ratio.
- Repeat this process until serum levels are below 0.1% and the cell viability is > 80%. The cell number should exceed $1x10^6$ cells/ml.

Technical support
For technical support, questions or remarks please contact your local PAN-Biotech partner or the technical department of PAN-Biotech via email (info@pan-biotech.com) or phone +49-8543-601630.

PAN Biotech GmbH – Am Gewerbepark 6+13 – 94501 Aidenbach – GERMANY
www.pan-biotech.com – phone +49-8543-601630 – fax +49-8543-601649