

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	100 ml
		P04-850500	500 ml
		P04-851000	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

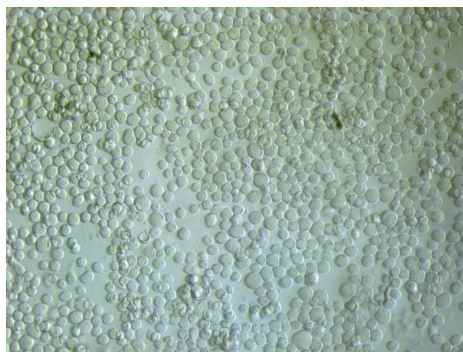
Storage: 2-8°C (in the dark)
Stability: 1 year from date of production
Size: 100 ml, 500 ml, 1000 ml, other sizes on request

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

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 \pm 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 5×10^5 cells/ml.
- When the culture reaches a cell density of $> 2 \times 10^6$ cells/ml (after 4-7 days) subculture cells in new protein-free medium with a cell density of 5×10^5 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 5×10^5 cells/ml
- When the culture reaches a cell number of $> 1 \times 10^6$ 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 1×10^6 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.

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