Certificate of Analysis

IPLB-Sf21 Insect Cells

Catalog No(s).	Amount	Lot Number
631411	1 Vial	Specified on product label.

Description

IPLB-Sf21 insect cells may be used as a host for propagating the *Autographa californica* multiple-enveloped nuclear polyhedrosis virus (AcMNPV) and its expression vector derivatives generated from our BacPAK™ system. The IPLB-Sf21 cell line is derived from pupal ovaries of the fall armyworm, *Spodoptera frugiperda* (1). Exponentially growing IPLB-Sf21 cells are concentrated by centrifugation and frozen in insect cell complete medium (2) containing 10% dimethysulfoxide (DMSO).

Package Contents

- 1 x 1 ml IPLB-Sf21 insect cells ($2x10^6$ cells/vial)

Storage Conditions

- Liquid nitrogen vapor phase

Shelf Life

- 1 year from date of receipt under proper storage conditions.

Shipping Conditions

- Dry ice (–70°C)

Product Documents

Documents for Clontech® products are available for download at **www.clontech.com/manuals**

References

1. Vaughn, J. L., *et al*. (1977) *In Vitro* **13**(4):213-217.
2. Hink, W. F. (1970) *Nature* **266**(5244):466–467.

Quality Control Data

- Cell viability before freezing: ≥ 80%
- Cell viability after thawing: ≥ 60%
  (as determined by trypan blue dye exclusion).

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Establishing the IPLB-Sf21 Cell Line:

1. Add 5 ml TNM-FH (2) supplemented with 10% FBS, to a 25-cm2 tissue culture flask and warm to 27°C.
2. Remove the vial of cells from liquid nitrogen (wear cryogenic gloves and a face shield).
3. Thaw rapidly in a 37°C water bath with gentle agitation until the suspension is almost thawed.
4. Decontaminate the outside of the vial with 70% ethanol.
5. In a laminar flow hood, transfer the cell suspension to the prewarmed flask containing 5 ml TNM-FH/FBS medium (refer to step 1).
6. Incubate the flask at 27°C for 1–3 hr (no more than 12 hr) to allow the healthy cells to adhere to the inside surface.
7. After confirming that a significant portion of the cells has attached, gently replace medium with 5 ml prewarmed TNM-FH/FBS medium.
8. Incubate at 27°C until the cells form a 80–90% confluent layer (about 2–3 days)

Notice to Purchaser

IPLB-Sf21 Insect Cells

CATALOG NO.

631411

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