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PRODUCT: BacPAK™ Baculovirus Expression System

CATALOG No. 631402

LOT NUMBER: 8070111A

STORAGE CONDITIONS

- Store Box 1: IPLB-Sf21 insect host cells in **liquid nitrogen**.
- Store Box 2 at 4°C.
- Store Box 3 at -20°C.

SHELF LIFE

Specified on product label.

SHIPPING CONDITIONS

- Box 1: Dry ice (-70°C)
- Box 2: Blue ice (4°C)
- Box 3: Dry ice (-70°C)

DESCRIPTION: Complete kit for expressing recombinant proteins at high levels. The BacPAK System uses the baculovirus *Autographa californica* nuclear polyhedrosis virus (AcMNPV) to produce target proteins in insect cells. Sufficient for 5 transfections.

PACKAGE CONTENTS

Box 1:

- 1 ml IPLB-Sf21 *Spodoptera frugiperda* (insect host cells, packaged separately)

Box 2:

- 25 µl BacPAK6 viral DNA (*Bsu*36 I digest; 20 ng/µl)
- 25 µl Bacfectin
- 2 ml BacPAK6 virus stock (positive control)

Box 3:

- 15 µg pBacPAK8 (transfer vector)
- 15 µg pBacPAK9 (transfer vector)
- 2.5 µg pBacPAK8-GUS (positive control transfer vector)
- 2.5 µg Bac1 Primer
- 2.5 µg Bac2 Primer

OTHER

- BacPAK Baculovirus Expression System User Manual (PT1260-1)
- BacPAK Baculovirus Expression System Protocol-at-a-Glance (PT1260-2)
- pBacPAK8 & pBacPAK9 Vector Information Packets (PT1262-5 & PT1263-5)

FOR RESEARCH USE ONLY

QUALITY CONTROL DATA

See back of page.



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QUALITY CONTROL DATA**A. BacPAK6 DNA**

BacPAK6 viral DNA (Bsu36 I digest) and pBacPAK8-GUS (a transfer vector containing the β -glucuronidase gene) were cotransfected into IPLB-Sf21 cells following the recommended protocol. Progeny viruses were plaque assayed (1) with the addition of X-Gluc (a chromogenic substrate for β -glucuronidase), to identify recombinant viruses, and in parallel with X-Gal to identify viruses generated from incompletely digested pBacPAK6 DNA.

The percentage of blue plaques resulting from addition of X-Gluc was: 98.5%. This is an underrepresentation of the actual percentage of viruses that have undergone the correct recombination, as blue color is extremely difficult to detect in smaller plaques.

The percentage of blue plaques resulting from addition of X-Gal was: 0%.

B. BacPAK6 Virus Stock

Virus titer as determined by infecting monolayers of IPLB-Sf21 cells: 4.5×10^7 IFU/ml

C. IPLB-Sf21 Cells

Cell viability before freezing: 96.4%

Cell viability after thawing: 81%

(as determined by trypan blue dye exclusion)

REFERENCE

1. Brown, M. & Faulkner, P. (1977) *J Gen. Virol.* **36**:361–364.

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